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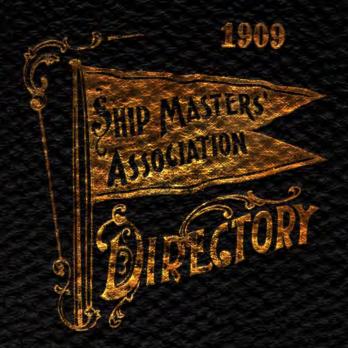
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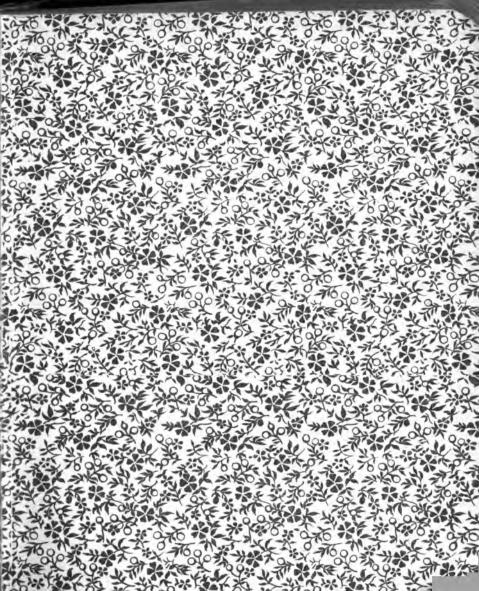
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### **DIRECTORY**

OF NAMES, PENNANT NUMBERS AND ADDRESSES
OF ALL MEMBERS OF THE

# Ship Masters' Association of the Great Lakes

Also a List of Vessels of the Great Lakes, American and Canadian, with Names and Addresses of Owners.

Other Information of a Miscellaneous Nature of interest in Shipping Circles on the Great Lakes ::::::::

**APRIL, 1909** 

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E. G. Ashley, Grand Financial Secretary, 207 Chamber of Commerce
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### A Few Introductory Remarks

In presenting the 1909 edition of the Ship Masters' Directory to the members I desire to call their special attention to the fact that our patrons have been very liberal with us and that the amount of advertising is in advance of any former year. And in order to keep our patrons interested and keep increasing our book we should show them that they are appreciated, and every member should consult his book, and at any time when possible he should help those who help him. It is an assured fact that the revenue from the book is a benefit to each and every member, as it pays all expenses of the Grand Lodge and one or two death assessments each year. The Association is in better condition at the present time than it ever has been during its existence. In 1909 there have been 200 active members taken in, and it should reach the 1,000 mark by the time of the next Grand Lodge meeting.

I wish to call the members' attention to the fact that at the last session of the Grand Lodge there was an amendment made to the Constitution, which reads as follows: "Any suspended member to be reinstated must furnish a certificate of good health from a physician selected by the lodge." So I would advise the members to get their assessments to the Grand Secretary within the 60-day limit, so as to avoid any bother or trouble, for if you are in arrears 60 days you suspend yourself. And members should promptly notify the secretary of any change in address so that they will receive their mail without any delay. I call your attention to the above facts in a brotherly spirit as I think they are very important to you all, and hope you will receive them in the same spirit.

E. G. Ashley, Grand Secretary.



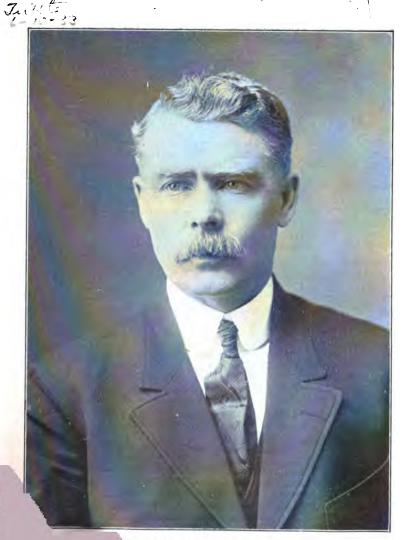
CAPT. JOHN H. McDonald, Grand President Shipmasters' Association.

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### A Few Introductory Remarks

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CAPT. JOHN H. McDonald, President Shipmasters' Association.



A. J. McKay

Alex Clark

C. E. Benham
C. H. Hubbard

W. D. Ames
W. D. Hamilton
W. E. Rice

H. H. Parsons



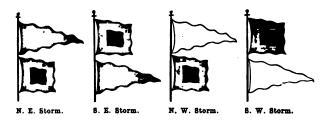
GRAND LODGE SHIPMASTERS' ASSOCIATION,

BACK ROW, FROM LEFT TO RIGHT—Robert Thompson, marshal; James B. Lyons, chaplain; C. E. Benham, part president; Walter Hamilton, past president; Peter Thompson, warden; W. J. Crosby, sentinel.

FRONT ROW, FROM LEFT TO RIGHT—A. J. McKay, grand treasurer; J. H. Sinclair, second vice president; grand president; J. H. McDonald, grand president; E. G. Ashley, grand secretary; George Mallory.

### STORM SIGNALS

### As Displayed on the Great Lakes at United States Weather Bureau Stations





Hurricane or very severe storm

Information Signals (red or white pennant) displayed alone have been discontinued.

### **EXPLANATION**

STORM SIGNAL.—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind; red, easterly (from northeast to south); white, westerly (from southwest to north). The pennant above the flag indicates that the wind is expected to blow from the northerly quadrants; below, from the southerly quadrants.

By night, a red light indicates easterly winds, and a white light above a red light, westerly winds.

HURRICANE SIGNAL.—Two red flags with black centers displayed one above the other, indicate the expected approach of tropical hurricanes, and also of those extremely severe and dangerous storms which occasionally move across the lakes and the northern Atlantic coast. Hurricane warnings are not displayed at night.

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## The Ship Masters' Association

## ITS AIMS AND OBJECTS WHO ARE ITS MEMBERS EXTRACTS FROM CONSTITUTION

#### ARTICLE I.-PURPOSE OF THE ASSOCIATION.

Sec. 2. The purpose of this association shall be to improve and elevate the character of its members, to create a brotherly feeling, to visit the sick, render necessary assistance in case of death, to provide for a beneficiary fund, and to pay the same to the family of deceased members, or as may be otherwise directed.

### ARTICLE V.-MEMBERSHIP.

Sec. 1. Every applicant for membership in this association shall hold a master's certificate issued by the United States or Canadian government, in force at the date of his becoming a member. He must also have been actively engaged in sailing within a period of two years prior to the date of his application for membership.

### NAMES AND ADDRESSES OF MEMBERS, SHIP MASTERS' ASSOCIATION.

Pennant.		
1867 A	bel. Wm.	Oueen st. Port Dalhousie, Ont.
996 A	ckerman, J. C.	Queen st. Port Dalhousie, Ont. 408 E. Ludington ave.
		Ludington, Mich.
1705 ·A	cton, Jos. R.	22 Lytle ave. Buffalo, N. Y.
1869 A	hern, Step'n P.	Main st. Port Dalhousie, Ont.
1098 A	nsworth, Chas.	Algonac, Mich.
1334 ·A	kers, E. C.	817 Park st. Port Huron, Mich.
1116 A	len, C. L.	Blackwell Canal Bridge, Buffalo, N. Y.
1038 A	llen, Sam'l C.	408 E. Ludington ave.  Ludington, Mich.  22 Lytle ave.  Main st.  Port Dalhousie, Ont.  Algonac, Mich.  817 Park st.  Port Huron, Mich.  Blackwell Canal Bridge, Buffalo, N. Y.  Str. Rensselaer,  Sault Ste. Marie, Mich.
		Sault Ste. Marie, Mich.
1816 A	llen, M. G.	Sault Ste. Marie, Mich.  1608 Crawford rd. Cleveland, O.  Algonac, Mich.  1449 W. 75th st. Cleveland, O.  3040 Detroit st. Lakewood, O.
1328 A	mes, Augustus	Algonac, Mich.
102U A1	mes, Geo. W.	1449 W. 75th st. Cleveland, O.
30/ A	mes, wm. D.	Manustra and Breadman et
1000 A	mes, Claude M.	Marquette and Broadway st.
1793 A	mas Who T	Marine City, Mich.
1/65 A	nderholt T D	137 Blaine ny Detroit Mich
1700 A	nderson Alex A	606 Clifton ave Chicago III
1368 A	nderson, C. A	1369 Ronny View av Takewood O
115 A	nderson, E. B.	Marquette and Broadway st.  Marine City, Mich.  Algonac, Mich.  137 Blaine av.  696 Clifton ave.  1369 Bonny View av. Lakewood, O.  Box 114.  736 32d st.  1363 W. 45th st.  1363 W. 45th st.  1364 Cleveland, O.  Wilwaukee, Wis.  Cleveland, O.  Milwaukee, Wis.  Milwaukee, Wis.  Milwaukee, Wis.  Milwaukee, Wis.  Milwaukee, Wis.  Milwaukee, Wis.
1513 A	nderson, Gus E.	736 32d st. Milwaukee, Wis.
570 A	nderson, Jos.	1363 W. 45th st. Cleveland, O.
1321 · A	nderson, M.,	1064 E. 99th st. Cleveland, O.
488 A	nderson, O. N.	338 Greenbush st. Milwaukee, Wis.
1641 A	nderson, P. A.	1373 Bonny View av. Lakewood, O.
1498 A:	nderson, Sig.	2 Sherman st., care of Calbick & Co.,
		Chicago, Ill. 33 State st. Ogdensburg, N. Y.
1733 A	nderson, S. V.	33 State st. Ogdensburg, N. Y.
1319 A	nderson. Wm.	2 Sherman st., Room 24, Chicago, III.
1569 A	rcher, A. A.,	177 Dragoon ave. Detroit, Mich. 669 Sheridan ave. Detroit, Mich.
255 A1	mstrong, B.,	009 Sheridan ave. Detroit, Mich.
854 AS	shley, Ed. G.	207 Chamber of Commerce. Toledo, O.
10/1 A	sniey, w. A.	Detroit, Mich.
1242 A	Killson, G. E.,	1040 N. Gawiidale ave. Cilicago, Ill.
ILTE A	tunill Lohn	Marine City Mich
737 A	twill, John	1048 N. Gawndale ave. Chicago, Ill

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Pennant.
1/54 Bailey, F. A.,
                                                           Vermillion, O.
                             ..........
614 Bailey, Robert N. Hicks & Clinton sts.
                                                               Toledo, O.
                                                            Windsor, Ont.
1592 Bain, A. J., 111 Pelissier st.
                                                            Detroit, Mich.
1397 Baker, Burton S. 418 E. Fort st.
1356 Baker, H. W., 601 Baker st. Detroit, Mich. 1862 Baldwin, Fred Dexter, N. Y. 1137 Balfour, C. C., 897 Third av. Detroit, Mich.
 222 Ballentine, E. D. care of Soo Lock Office,
                                                Sault Ste. Marie, Mich.
1423 Banker, G. H., 1325 124th pl.
                                                            Cleveland, O.
1610 Barclay, John 380 Hudson st. Buffalo, N. Y.
1632 Barnes, Chas. E. R. F. D. No. 4. Birmingham, Mich.
1384 Bartel, A. E. 2167 W. 65th st. Cleveland, O. 1366 Beggs, David 1047 W. Taylor st. Chicago, III. 1090 Beggs, Thos. 1467 Olivewood av. Lakewood, O. 698 Bell, Geo. A. Vermillion, O. 1747 Bell, Thos. J. 201 State st. Ogdensburg, N. Y. 1729 Bell, Jos. C. 524 Bell av. Marine City, Mich. 224 Parkers C. F. 411 Parker Parkers Library 1997.
 234 Benham, C. E., 411 Perry-Payne bldg. Cleveland, O.
427 Benham, Chas. A. 2119 W. 98th st. Cleveland, O. 1499 Benham, G. E. 2054 W. 100th st. N. W. Cleveland, O. 982 Benham, Wm. P. 1342 W. 111th st. Cleveland, O.
1846 Bennet, Daniel J.157 Kohler st. Tonawanda, N. Y.
1716 Bennett, Chas. D.400 Massachusetts st. Buffalo, N. Y.
1794 Bennett, Edw. H. ..... Port Huron, Mich.
1525 Bennett, G. J. Vance & Joys Co. Milwaukee, Wis.
Cleveland, O.
 1134 Black, Wm. A. 1436 W. 74th st.
 1205 Blattner, W. H. 324 13th st.
                                                                  Elyria, O.
 1573 Boggan, Moses 118 Carolina st.
                                                           Buffalo, N. Y.
 1715 Booth, Wm. H. R. F. D. No. 2.
                                                       Marine City, Mich.
   96 Bordeaux, D. O. 386 Fourteenth st.
                                                             Buffalo, N. Y.

1427 Bough, Chas.
1068 Bouille, David
1236 Bouille, Pierre
121 W. Schuylen st.
3304 Marvin ave.
3304 Marvin ave.

                                                            Oswego, N. Y.
                                                          Cleveland, O. Cleveland, O. Cleveland, O.
 1788 Bourassa, Joseph .....
                                                          Milwaukee, Wis.
  505 Boyce, H. M. 631 Superior st.
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1503 Bradshaw, J. L. 1013 Lincoln ave. Port Huron, Mich.
1061 Brady, Thos. J. 1312 Wabash av.
                                              Detroit, Mich.
1387 Brant, Aug. care Kelley's Island L. & T. Co.,
                                               Cleveland, O.
1605 Bright, Wm. T. 1492 N. Whipple st.
                                             Chicago, Ill.
973 Brion, Jas. W. 713 Perry-Payne bldg. Cleveland, O.
1262 Broadbridge.
       A. T.
                                         Marine City, Mich.
1727 Broderick, Benj. 803 Potomac ave.
                                              Buffalo, N. Y.
1414 Bronson, C. T. U. S. Engineers' Office,
                                            Milwaukee, Wis.
1255 Brooks, R. H. 1714 W 69th st. N. W. Cleveland, O. 1651 Brooks, Wm. H. 925 Niagara st. Buffalo, N. Y.
1646 Brooks, Walter
M., Pt. Capt. 141 Milk st. Boston, I
804 Brown, C. T. care of the Valley Fruit Co.,
                                               Boston, Mass.
                                                 Delray, Fla.
1768 Brown, Chas. D. 715 Ontario st. Port Huron, Mich.
1673 Brown, Claud D. care Vance & Joys, Mitchell bldg.,
                                            Milwaukee. Wis.
174 Brown, F. H.
                       7004 Franklin av.
                                              Cleveland, O.
947 Brown, Geo. A. 427 Jackson st.
                                                Sandusky, O.
1198 Brown, Hector
                       Box 630.
                                         Marine City, Mich.
413 Brown, Jas. A.
                       128 Homer st.
                                                Chicago, Ill.
1531 Brown, Nelson
1531 Brown, Nelson care D. T. Helm & Co., Duluth, Minn. 1876 Brown, Walter R. 109 W. Melendy st. Ludington, Mich.
1485 Brownell, E. H. 666 Dover st.
1691 Brownell, Jos. A. 955 Mound st.
                                           Milwaukee, Wis.
                                          Milwaukee, Wis.
1083 Brownell, S.
                       955 Mound st.
                                           Milwaukee, Wis.
709 Bruce, Jas.
                       206 Lyon st.
                                            Milwaukee, Wis.
1365 Buchanan, Duncancare F. B. Higgie, 224 Postal Tel.
                                                Chicago, Ill.
1542 Buchanan, Jas.
                       3425 Mapledale ave.
                                                Cleveland, O.
1584 Buckley, J.
                                              Buffalo, N. Y.
                       48 Marinen st.
995 Budd. Melvin A. 318 Sassafras st.
                                                    Erie, Pa.
 319 Buie. Daniel
                       535 60th st.
                                             Englewood, Ill.
1117 Burke, Enos J. 415 Wabash ave.
                                               Detroit, Mich.
1167 Burnham, Geo. H. 207 Chamber of
                                           Commerce.
                                                  Toledo, O.
1827 Burns, Geo. C.
                       298 Field ave.
                                               Detroit, Mich.
                       1017 8th st.
1101 Burns, John
                                          Port Huron, Mich.
1294 Burns, John J. 288 14th st.
                                             Buffalo, N. Y.
1589 Burns, T. C.
                       1843 W. 50th st.
                                             Cleveland, O.
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1003 Byrns, Howard	1588 Ancel ave Claveland O
71 Chamberlain, W. 1078 Chamberlin, F. D. 1658 Chamberlin, Wm	3 Fisk st.  3 Fisk st.  3 Fisk st.  3 Fisk st.  5838 Lafayette ave.  5838 Lafayette ave.  5838 Lafayette ave.  60 Chicago, Ill.  612 Kirby ave.  613 W.  614 Poplar st.  615 Franklin ave.  616 Poplar st.  617 Randall rd.  618 Poplar st.  619 Port Huron, Mich.  619 Chicago, Ill.  612 Spruce st.  613 Ashtabula Harbor, O.  614 Huron st.  615 Buffalo st.  616 Manitowoc, Wis.  617 Anderburg st.  618 Poplar st.  619 Chicago, Ill.  610 Second st.  611 Grand Haven, Mich.  612 Ruffalo st.  613 North Western ave.  614 Chicago, Ill.  615 Chicago, Ill.  616 Chicago, Ill.  617 Alexandrine ave.  618 Detroit, Mich.
J. 861 Chambers, A. P. 293 Chapman, C. B. 44 Chapman, A. C. 1845 Chilson, W. E. 1125 Christensen, A. 892 Christenson, P. 1355 Christie, Chas. 1172 Christopher, S. 1886 Christopher, Sam 252 Chron, Thomas 1393 Clark, John C. 1085 Clarke, Alex. A. 35 Clarke, Geo. H. 1844 Clarke, Jas. M.	407 Third st. St. Clair, Mich. 829 Prospect st. Port Huron, Mich. 224 Washington st. Lorain, O. 1472 Robinwood ave. Lakewood, O 150 Woodward st. Buffalo, N. Y. 404 Webster pl. 815 State st. Manitowoc, Wis. 319 Chene st. 725 N. Humbold st. 4228 Champlain ave. 223 Adams st. 393 W. Delevan ave. 1086 Trumbull ave. 424 Normal ave. 424 Normal ave. 575 Tonawanda st. St. Clair, Mich. Buffalo, N. Y. Detroit, Mich. Buffalo, N. Y. Buffalo, N. Y. Buffalo, N. Y. Buffalo, N. Y.

Pennant.
1500 Claules Wil E 50 Cald at Descale NOV
1508 Clarke, W. E. 59 Gold st. Buffalo, N. Y. 1696 Clausson, Gus T. 571 5th ave. Milwaukee, Wis.
1090 Clausson, Gus 1. 5/1 5th ave. Milwaukee, Wts.
433 Cleveland, C. R. 3500 Denison ave. S. W.
Cleveland, O.
169 Cleveland, G. F. 14074 Euclid ave. E. Cleveland, O.
1244 Clifford, Alex. 878 Fort st. E. Detroit, Mich.
370 Clow. J. M. 1232 Merryman st. Marinette, Wis.
642 Cochrane, David 3530 Ellis ave. Chicago, Ill.
1070 Cody, F. B. care J. A. Holmes, 307 Superior st.,
Cleveland, O. 1438 Colbert, Thos. 1440 East 89th st. Cleveland, O.
1438 Colbert, Thos. 1440 East 89th st. Cleveland, O.
116 Coleman I H care I. B. Hall, 46 Dun bldg.
Buttaio, N. Y.
274 Collier, W. A. 2050 E. 93d st. S E. Cleveland, O.
1731 Comins, Edw. T. 809 Erie st. Port Huron, Mich.
1856 Comins, Alonzo
B. 922 Willan st. Port Huron, Mich.
1563 Conkey, C. M. 718 Erie st. Port Huron, Mich.
B. 922 Willan st. Port Huron, Mich. 1563 Conkey, C. M. 718 Erie st. Port Huron, Mich. 1247 Cook, John G. 911 State st., flat 7. Milwaukee, Wis.
1247 Cook, John G. 911 State st., flat 7. Milwaukee, Wis. 1309 Cooke, J. W. care of Miss Frances Cook, Webers
1309 Cooke, J. W. care of Miss Frances Cook, Webers
Clothing House, Toledo, O.
1599 Coon, George 50 Corcoran, Jos. 225 E. 3d st. Erie, Pa. 738 Cottrell, G. L. 1290 Lakeland ave. Lakewood, O.
50 Corcoran, Jos. 225 E. 3d st. Erie, Pa.
738 Cottrell, G. L. 1290 Lakeland ave. Lakewood, O. 1257 Cottrell, Jas. E. Elizabeth st. Marine City, Mich.
1257 Cottrell, Jas. E. Elizabeth st. Marine City, Mich.
1478 Cotton, A. J. care J. H. Sinclair. 1408 7th st.,
Fort Huron, Mich. 448 Coughlin, Daniel 563 Perry st. Buffalo, N. Y. 1012 Cowles, Wm. J. Lakeview Farm, R. F. D. No. 1,
448 Coughlin, Daniel 563 Perry st. Buffalo, N. Y.
1012 Cowles, Wm. J. Lakeview Farm, R. F. D. No. 1,
Port Huron, Mich.
194 Cowley, R. J. 585 2d ave. Lorain, O.
194 Cowley, R. J. 585 2d ave. Lorain, O. 1447 Craig, J. C. 179 Jannette ave. Windsor, Ont. 1135 Craigie, Alex. Cor. W. 57th and Detroit ave.,
1135 Craigie, Alex, Cor. W. 57th and Detroit ave.,
The Killsey. Cleveralid, O.
1358 Crangle, John 131 Station st. Chicago, Ill.
1717 Crawford, Geo.
B. Port Dalhousie, Ont.
1874 Crawford, John 701 W. Ludington ave.,
G. Ludington, Mich.
1/30 Crockett, Tyler
J. 437 11th st. Port Huron, Mich.
1664 Crooker, David
G. Ludington, Mich.  1730 Crockett, J. 437 11th st. Port Huron, Mich.  1664 Crooker, David M. 2520 Forest st. Port Huron, Mich.

Pennant.		
1076 Crocher Wm I	370 Cavaley ave	Detroit Mich
1076 Crosby, Wm. J. 1445 Cullnan, John	5/4 Dowle area	Chicago III
1522 Culo Unmilton	Dan 171	Willowshiber O
1445 Cullnan, John 1523 Culp, Hamilton 202 Cummings, H. 827 Cunningham,	BOX 3/3.	Classiand O
202 Cummings, H.	1309 59th st.	Cleveland, O.
827 Cunningham,	040 77	
Jas.	253 Hoyt st.	Buffalo, N. Y.
1252 Cunningham, J.		
J.	1725 Ontario st.	Toledo, O.
827 Cunningham, Jas. 1252 Cunningham, J. J. 1154 Curran, David A.	324 Grant st.	Buffalo, N. Y.
•		
1360 Dailey Michael	252 Brady et	Milwaukee Wis
121 Davis F H	717 Division st Po	rt Haron Mich
121 Davis, E. II.	702 Omegania at E	Port Huron Mich
136 Davis, Hellry W.	703 Official St. I	D. C. L. N. V.
1812 Davis, Henry J.	413 Eagle st.	Buffalo, N. Y.
1637 Dawley, W. W.	R. F. D. No. 1.	Conneaut, O.
1633 D'Clute, J. C.	Post Fish Co.	Sandusky, O.
950 Decker, W. H.	40 Oregon ave.	Chicago, Ill.
1891 Delaney, Geo. J.	Nor	th Augusta, Ont.
1787 DeNike, Lee C.	Grand Union Hote	l. Detroit. Mich.
983 Detlifs, Emil	3788 W. 33d st. S.	W. Cleveland, O.
1718 Detlifs, Fred	1549 Wiyandotte av	e. Lakewood, O.
199 Disher, William	348 Cortland st	Chicago, Ill
4 Dissett John H	381 Fargo ave	Buffalo N V
1668 Ditzel Henry F	21 16th ave	Duluth Minn
1402 Divon A	2040 Wast 20th of	S W Claveland
1950 Discon Edus E	404 Monthone of	Milespelson Win
for Deals Table A	700 Montana St.	Milwaukee, Wis.
1420 Determ T. C.	399 Wentworth ave.	Classian O
1429 Dobson, J. C.	9 Marietta.	Cieveland, O.
188/ Dobson, J. C,		Rock Creek, O.
10/5 Donaghue, E. J.	II High st. W.	Detroit, Mich.
1719 Donahue, Jas.	72 Mont Clair.	Buffalo, N. Y.
1672 Doner, Jas.	107 Church st.	Detroit, Mich.
1766 Doner, Thos. F.	221 N. Riverside st	. St. Clair, Mich.
1554 Doohen, Frank B.	423 Fargo ave.	Buffalo, N. Y.
1539 Dority, Frank A.	889 Hockett ave.	Milwaukee, Wis.
1360 Dailey, Michael 121 Davis, E. H. 138 Davis, Henry W. 1812 Davis, Henry J. 1637 Dawley, W. W. 1633 D'Clute, J. C. 950 Decker, W. H. 1891 Delaney, Geo. J. 1787 DeNike, Lee C. 983 Detlifs, Emil 1718 Detlifs, Fred 199 Disher, William 4 Dissett, John H. 1668 Ditzel, Henry E. 1492 Dixon, A. 1859 Dixon, Edw. F. 501 Doak, John A. 1429 Dobson, J. C. 1887 Dobson, J. C. 1887 Dobson, J. C. 1075 Donaghue, E. J. 1719 Donahue, Jas. 1662 Doner, Jas. 1766 Doner, Thos. F. 1554 Doohen, Frank B. 1539 Dority, Frank A. 1683 Dorry, B. B.	U. S. str. Crocus.	are Light House
<i>•</i> , – •	Inspecto	or, Buffalo, N. Y.
1147 Doville, D. F. 1251 Doville, Egbert 407 Doville, Jos. 1744 Doyle, Wm. J. 1877 Doyle, John J.	424 Water st.	Toledo, O
1251 Doville, Eghert	424 Water st	Toledo O
407 Doville Tos	Hotel Doville So	due Point N V
1744 Doyle Wm T	7 Hamilton et O	rdenshuer N V
1977 Doule Take T	Tudination St. O	guensburg, IV. I.
10// Doyle, John J.	Luaington, I	wason Co., Mich.

Pennant.
Pennant.  317 Drake, A. B. 97 White bldg. Buffalo, N. Y 1059 Driscoll, Jas. H. 1362 W. 112th st. Cleveland, O 1670 Drury, John E. 161 Dodge st. Buffalo, N. Y 1777 DuBeau, Geo Algonac, Mich 1864 Dubrule, Eug. A. 49 Park st. Ogdensburg, N. Y 1566 DuClos, Napole- on 137 Second st. Milwaukee, Wis 1592 Duddleson, J. W. 729 Maple st. Sault Ste. Marie, Mich
1059 Driscoll, Jas. H. 1362 W. 112th st. Cleveland, O
1670 Drury, John E. 161 Dodge st. Buffalo, N. Y
1777 DuBeau, Geo Algonac, Mich
1864 Dubrule, Eug. A. 49 Park st. Ogdensburg, N. Y
1500 DuClos, Napole-
on 13/ Second St. Milwaukee, Wis
1095 Duddleson, J. W. 729 Maple st. Sault Ste. Marie, Mich 532 Duncanson, D. J. 37 Reed pl. Detroit, Mich 1739 Dunn, Chas. A. 77 Park st. Ogdensburg, N. Y 17 Dunn, John 69 Best st. Buffalo, N. Y 1519 Dunn, Thomas 252 E. Utica st. Buffalo, N. Y 1467 Dunseith, John 820 Lincoln ave. Toledo, O 1534 Dupuy, Fred A. Box 218, Marine City, Mich 678 Durand, H. H. 1413 Kelsey ave. E. Toledo, O 105 Durker, Henry 517 Sacramento ave., near 12th st., Chicago, III
I 37 Reed nl. Detroit, Mich
1739 Dunn. Chas. A. 77 Park st. Ogdensburg, N. Y
17 Dunn, John 69 Best st. Buffalo, N. Y
1519 Dunn, Thomas 252 E. Utica st. Buffalo, N. Y
1467 Dunseith, John 820 Lincoln ave. Toledo, O
1534 Dupuy, Fred A. Box 218, Marine City, Mich
678 Durand, H. H. 1413 Kelsey ave. E. Toledo, O
105 Durker, Henry 517 Sacramento ave., near 12th st.,
Chicago, III 1803 Durney, John 1285 W. 9th st. Cleveland, O 1289 Dwelle, A. W
1200 Duriley, John 1205 W. Mil St. Cleveland, O
1127 Duble Edward 7908 Franklin ave Cleveland O
1127 Dybic, Edward 7900 Frankini avc. Cicveland, O
628 Eade, A. "Winecaves." Birmingham, Mich
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A
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628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank 631 Elliott, Lewis 1483 Ellis, F. S. 1348 E. 111th st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. Windsor, Ont 1219 England. R. W. 1370 W. 112th st. Cleveland, O 1272 Ennes, C. G. 1226 W. 116th st. Cleveland, O 1272 Ennes, C. G. 1226 W. 116th st. Cleveland, O
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis Rome, Mich 1483 Ellis, F. S. 1348 E. 111th st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. Windsor, Ont 1219 England. R. W. 1370 W. 112th st. Cleveland, O 272 Ennes, C. G. 1226 W. 116th st. Cleveland, O 1529 Ennes. Everett 418 Jackson st. Sandwick O
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis Rome, Mich 1483 Ellis, F. S. 1348 E. 111th st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. Windsor, Ont 1219 England. R. W. 1370 W. 112th st. Cleveland, O 272 Ennes, C. G. 1226 W. 116th st. Cleveland, O 1529 Ennes, Everett 418 Jackson st. Sandusky, O 1030 Ennis, C. M. 6809 Clinton ave.
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis Rome, Mich 1483 Ellis, F. S. 1348 E. 111th st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. 1219 England. R. W. 1370 W. 112th st. 272 Ennes, C. G. 1226 W. 116th st. 1229 Ennes, Everett 418 Jackson st. Sandusky, O 1828 Ernest, Chas. W.110½ Bush st. Detroit. Mich
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John  W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 899 Elliott, A. M. 1663 Sawyer ave. Chicago, Ill 1363 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis Rome, Mich 1483 Ellis, F. S. 1348 E. 111th st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. Windsor, Ont 1219 England. R. W. 1370 W. 112th st. Cleveland, O 272 Ennes, C. G. 1226 W. 116th st. 1529 Ennes, Everett 418 Jackson st. 1529 Ennes, Everett 418 Jackson st. 1529 Ennes, Everett 418 Jackson st. 1528 Ernest, Chas. W.110½ Bush st. 1526 Evans, John 1319 Forest ave. St. Joseph, Mich 1536 Evans, Robt. T. 1319 Forest ave. St. Joseph, Mich
628 Eade, A. "Winecaves," Birmingham, Mich 1425 Edwards, M. L. 675 Osgood st. Chicago, Ill 1494 Ehrhart, John W. care Acme S. S. Co. Duluth, Minn 952 Eldredge, H. C. 1296 W. 78th st. N. W. Cleveland, O 460 Ellery, Thos. A. Marysville, Mich 631 Elliott, Frank care Calbick & Co. Chicago, Ill 631 Elliott, Lewis 1348 E. Illith st. N. E. Cleveland, O 1630 Ellis, Thos. C. 149 Sandwich st. Windsor, Ont 1219 England. R. W. 1370 W. 112th st. Cleveland, O 1529 Ennes, C. G. 1226 W. 116th st. Cleveland, O 1529 Ennes, Everett 418 Jackson st. 6809 Clinton ave. 1529 Ennes, Everett 418 Jackson st. 6809 Clinton ave. 1528 Ernest, Chas. W.110½ Bush st. 1536 Evans, John 1319 Forest ave. 1536 Evanson, Arnold 441 29th ave. Milwaukee, Wis 373 Everett, A. "Winecaves," Birmingham, Mich 675 Osgood st. Chicago, Ill 675 Osgood st. Osgood st. Chicago, Ill 675 Osgood st. Osgood st. Osgood st. Chicago, Ill 675 Osgood st. Osgood s

Pennant.	
1636 Harboldt, John	1873 W 47th at Class 1 0
1304 Harlow, F. T.	Suite 10 Cuarran Li Cleveland, O.
553 Harlow W I	553 Superior of Blk. Cleveland.
641 Harner George	1500 Manual Toledo, O.
our marper, deorge	1873 W. 47th st. Cleveland, O. Suite 10, Guernsey blk. Cleveland. 553 Superior st. Toledo, O. e 1509 Marquette ave.
200 Hossow W D	W. Bay City, Mich. Payment, Mich.  60 Clifford st.  331 Merrick ave. Detroit, Mich.  220 Perry-Payme bldg Client, Mich.
1224 Hanne W. B.	Payment, Mich.
1324 Harrow, W. G	. 60 Clifford st. Detroit, Mich.
155 Hart, Fred C.	331 Merrick ave. Detroit, Mich.
500 Hawgood, A. H	331 Merrick ave. Detroit, Mich. 220 Perry-Payne bldg. Cleveland, O. 235 Broad st. Tonawanda, N. Y. 3d st. St. Clair, Mich. 253 Herkimer st. Buffalo, N. Y. 8011 Elsie ct. N. W. Cleveland, O. 68 Seymour st. Tonawanda, N. Y.
1159 Hayes, W. J.	235 Broad st. Tonawanda, N. Y.
1834 Hayward, Geo.	3d st. St. Clair, Mich.
1811 Heaney, Jno. C.	. 253 Herkimer st. Buffalo, N V
1106 Heaton, C. H.	8011 Elsie ct. N. W. Cleveland O.
1728 Hefferman, Jas.	68 Seymour st. Tonawanda N V
1760 Hefferman, T.	a diamanda, 14. 1.
N.	68 Seymour st. Tonawanda, N. Y.  196 William st. Tonawanda, N. Y.  Algonac, Mich.
1773 Hemenger, F. R.	Algonac Mich
1502 Hendricks, Ed-	
ward	care Milwaukee Gas Light Co.
	Milwoules Mil
1527 Hendriksen, Ot-	Milwaukee, Wis.
	34'1 M 0 m
1642 Henry Ed	
1029 Herbert, Fred.	1129 Pine st. Port Huron, Mich.
1497 Herbert, J. G.	66 Tracer et Buffalo, N. Y.
1126 Hangangahan T	2031 W FOLL Buffalo, N. Y.
1136 Hergenrother, J. 826 Herrick, T. C.	2051 W. 50th st. Cleveland, O.
1721 Harrick, I. C.	55 Gallatin ave. Buffalo, N. Y. 66 Tracey st. Buffalo, N. Y. 2031 W. 50th st. 3368 Cherry st. Toledo, O.
1721 Hetherington, N.	337211
M.	Williams st. Marine City, Mich.
235 Higgie, F. B.	10/0 Van Buren st (hicago III
1359 Higgie, J. F. 362 Higgins, Thos.	559 Waller ave. Austin, Ill.
J.	141 S. Fifty-third ave. Chicago, Ill.
1824 Hill, Edwin A. 1421 Hill, Fred C.	Exchange st. Vermillion, O.
1421 Hill, Fred C.	Marine City, Mich.
391 Hinslea, C. H.	1481 Robinwood ave. Lakewood, O.
1184 Hinslea, Henry	1522 Robinwood ave. Lakewood, O.
1004 Hoag, W. S.	1970 W. Mth st. Cleveland O
1881 Hoffman Frank	188 Gre Detroit Mich
1074 Hoffman W H	Marine City, Mich.  1481 Robinwood ave. Lakewood, O. 1522 Robinwood ave. Lakewood, O. 1970 W. 4th st. Cleveland, O. 188 Gre Detroit, Mich. 134 H: ave. Detroit, Mich. 1675 1 st. Chicago, Ill. 2 She Chicago, Ill.
144 Hopen Tages	1675 7
144 Hogan, James	10/3 L Chicago, Ill.
1080 Hogensen, H. A.	2 She Chicago, Ill.
22 Hogg, G. L.	2 She Chicago, Ill. 4169 hicago, Ill.
The second secon	

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Pennant.
423 Girardin, D. J. Box 65. Amherstburg, Ont. 1595 Girardin, W. L. 15 Atwater st. Detroit, Mich. 1190 Godman, Jas. P. 49 Campbell Park. Chicago, III.
1507 Goodell, F. A. 10754 Hoxie ave. So. Chicago, Ill.
1752 Goodrich, John
                          76 Lake st. Ogdensburg, N. Y.
        W.
1054 Goodrow, Frank 475 Cadillac ave. Detroit, Mich.
1403 Goodwin, J. F. 1948 W. 50th st. N. W. Cleveland, O. 1526 Gordon, D. G. General Delivery. Detroit, Mich. 1493 Gould, F. E. 1595 E. 86th st. N. E. Cleveland, O.
1588 Grashaw, W. 2506 E. 89th st. S. E. Cleveland, O.
 120 Grasser, George Neuva Gerone, Isle of Pines, Cuba.
1839 Graves, Gustav
                        Mary st.
        W.
                                      Marine City, Mich.
1568 Green, Arnold 811 Potomac ave. Chicago, Ill.
1016 Green, John D. 955 West ave.
1150 Greening, Wm. 18 Ohio st.
158 Greenley, A. J. 1440 Rockway ave.
714 Griffin, John L.
413 Juneau pl.

College, H. Griffin, N. Y.
Buffalo, N. Y.
Lakewood, O.
Milwaukee, Wis.
1535 Gunderson, Gus-
                         1920 N. Sixth st. Sheboygan, Wis.
1596 Gustafson, Peter 2237 Carnegie st. Cleveland, O.
                                                    Chicago, Ill.
·1708. Gutch. Paul 2 Sherman st.
1786 Hackett, Thos.
        H.
                          441 4th ave.
                                              Detroit, Mich.
 627 Hagan, Hugh J. 104 Collingwood ave. Detroit, Mich.
1153 Hamilton, W. D. 1295 Millard ave. Chicago, Ill. 1197 Hand, A. S. ........... Conneaut, O.
1735 Handley, John
                          43 Pleasant ave. Ogdensburg, N. Y.
       H·
1754 Hanley, Chas. C. 245 Paynes ave. N. Tonawanda, N. Y.
1140 Hansen, And C. 2528 Main st. Buffalo, N. Y.
1456 Hansen, J. F. 1223 Tripp ave. Chicago, Ill.
1699 Hanson, Andr'w 245 W. Huron st. Chicago, Ill.
1612 Hanson, J. T. 1425 Pleasant st. Port Huron, Mich.
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Pennant.	
359 Jenks, John	5735 Normal av. Chicago, III.
1450 Tennings, T.P.	5735 Normal av. Chicago, Ill. 233 N. Ashland ave. Chicago, Ill.
1450 Jennings, J. P. 1191 Jensen, K. A. 1131 Jex, N. 1603 Johnson, Carl	98 Porter st. Somerville, Mass. 1749 Summit st. Toledo, O. 315 Dickens ave. Chicago, Ill. care Great Lakes Towing Co., 210
1131 Jey N	1749 Summit st Toledo O
1603 Johnson Carl	315 Dickens ave Chicago III
394 Johnson, John	care Great Lakes Towing Co. 210
1556 Tahmaan Ima A	anna Diabaldt Walton & Co
1555 Johnson, Juo. A.	care Riebaldt, Wolter & Co., Sturgeon Bay, Wis.
1394 Johnson, Martin	10122 Olivet ave. N. E. Cleveland, O.
1604 Johnson, Martin	315 Dickens ave. Chicago, III.
1481 Johnson, Wm. H.	Algonac, Mich.
1081 Johnston, Alex.	1009 Ninth st. Bay City, Mich.
1767 Johnston, Mar-	10122 Onvet ave. N. E. Cleveland, O. 315 Dickens ave. Chicago, Ill. Algonac, Mich. 1009 Ninth st. Bay City, Mich. 2120 8th st. Port Huron, Mich. Grd. Trunk Elevator.
tin	2120 8th st. Port Huron, Mich.
1793 Johnston, Jas.	Grd. Trunk Elevator.
1330 Johnston, J. M.	1369 Bonny View ave. Lakewood, O.
1020 Jollie, Richard	Jefferson, O.
1451 Jones, Harry	122 Woodside ave. Buffalo, N. Y.
1115 Jones, Jno. F.	Jefferson, O.  122 Woodside ave. 1297 W. 112th st. Milyanukoa Tura Lina
1532 Jones, Warren C.	Milwaukee Tug Line.
1797 Judson, H. W.	239 Rosedale ct. Detroit, Mich.
865 July, E. F.	Milwaukee, Wis. 239 Rosedale ct. 254 4th ave. Detroit, Mich. Detroit, Mich.
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1831 Kariger, Fred'k	139 Field ave. 378 22d st. 141 Oak st. 9406 Lamont st. 151 Knefick ave. 220 Huron st., care T. R. Edwards, O.
1690 Kearns, Chas. L.	378 22d st. Milwaukee Wis
1122 Kearns Tosenh	141 Oak st Wyandotte Mich
1442 Keller A R	9406 Lamont st Cleveland O
1870 Keller Chas H	147 Fremont et N Tonawanda N V
1579 Kelley A	51 Knefick ave Ruffalo N V
838 Kallay David	220 Huron et care T R Edwards
oso Refley, David	Tolodo O
1227 Waller, H T	Toledo, O. 1273 E. 80th st. Cleveland, O. 2021 Seventh st. Port Huron, Mich.
1237 Kelley, 11, 1,	2021 Command at Done Human Mich
004 Valley, Jas. W.	216 First and Milwayles Wis
1606 Kandall Can D	316 First ave. Milwaukee, Wis. Algonac, Mich.
1772 Kendall, Doug-	Almone Wich
las	Algonac, Mich.
89 Kendall, H. J.	Box 32. Marysville, Mich.
1625 Kennedy, Jas.	Box 32. Algonac, Mich. Marysville, Mich. Detroit, Mich.

Pennant.	·
1776 Kenworthy, Samuel 1650 Kerr, Harry 409 Kiah, D. A. 1863 Kiah, Jr., David	General Delivery. 46 Franklin st.  Algonac, Mich. Buffalo, N. Y. Ogdensburg, N. Y.
Α.	6 Hamilton st. Ogdensburg, N. Y. 85 New York ave. Ogdensburg, N. Y. Marine City, Mich. R. F. D. No. 4, Box 169.
1240 Runn, John	Three Mile Bay, N. Y. 2313 Elk st. Port Huron, Mich. 348 E. North st. Buffalo, N. Y. 609 31st st. Chicago, Ill. 609 31st st. Chicago, Ill. ft. Adair st. Detroit, Mich. Main and Pearl sts. Marine City, Mich.
1879 La Fleur, Wm. H.  1010 Laframboise, J. 557 Laframboise, Jas. 810 Lalonde, Anty. 1381 Lamoreaux, Jos. 9'0 Lampoh, Jos. 1295 Landfair, B. M. 697 Landfair, Jno. A. 1617 Lang, Julius 1206 Larson, P. 17'5 Larson, Nils L. 1750 Le Beau, S. 13'52 Leckie, Frederic 1678 Lee, Iver M. 500 Leisk, Henry	302 N. Robert st. 1195 Hall ave. 1776 Fulton rd. 420 E. Superior st. 1224 Bell ave. 1429 W. 38th st. 511 Franklin st. 344 Sedgwick st. 822 N. Leavitt st., Flat 2, Chicago, Ill. 552 29th ave. 50 Canal st. 915 Rockefeller bldg. 1279 6th st. 128kewood, O. Cleveland, O. Cleveland, O. Cleveland, O. Milwaukee, Wis. Ogdensburg, N. Y. 915 Rockefeller bldg. 1279 6th st. 128 Box 412. 128 Box 412. 128 Box 412. 129 Cleveland O. Milwaukee, Wis. Wauwatosa, Wis.
498 Leisk, John 1285 Leith, Alex. 520 Lemay, Timese 751 Lennon, Wm. 1688 Leonard, Roy M. 1662 Leroy, John Smith	1279 6th st.  Box 412.  730 Wilson st.  1137 N. Albany av.  124 Pitcher st.  197 W. Seneca.  351 11th ave.  59 Broadway st.  Milwaukee, Wis.  Milwaukee, Wis.  Chicago, Ill.  Detroit, Mich.  Oswego, N. Y.  Milwaukee, Wis.  Buffalo, N. Y.

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Pennant.
1734 Leonard, M. A. 416 Ford st. Ogdensburg, N. Y. 1424 Light, F. W. 3911 Daisy ave. Cleveland, O. 284 Little, C. E. 118 Christian st. N. Tonawanda, N. Y.
 119 Little, John W. 718 Division st. Port Huron, Mich.
 461 Little, Nelson 2735 S. Military st. Port Huron, Mich.
1774 Little, Nelson T. ..... Algonac, Mich.
 750 Livingston, W.
                               507 Moffatt block. Detroit, Mich.
         Jr.
 1079 Lockhart, D. O. 213 Madison st. Sandusky, O. 183 Lockwood, C. W. R. F. D. No. 4, Box 4, Ashtabula, O.
1079 Lockhart, D. O. 213 Madison st.
 283 Loftus, H. F. Geneva Lake Gravel & Sand Co.,
                                                           Walworth, Wis.
1789 Logan, John A. 4008 Archwood ave. Cleveland, O.
 603 Lohr, Edward 820 Champlain st. Detroit, Mich.
1559 Lohr, John M. ...... Marine City, Mich.
1835 Lomes, Jos. H. 210 Adams st. 1868 Longley, Geo. R. 80 Page st. St. Clair, Mich. 182 Lowe, J. 1426 Mars ave. Lakewood, O. 164 Lowe, J. B. 1783 W. 48th st. N. W. Cleveland, O.
1655 Lowe, John H. 231 Waverly st.
1809 Lucas, Wm. J. 50 Greenwood pl.
1644 Ludington, Lewis 212 Forest st. W.
1259 Lynn, Daniel R. 558 White st.

Buffalo, N. Y.
Detroit, Mich.
E. Toledo, O.
                                             Unionville, Lake Co., O.
1823 Lyons, Harry S.
 Lyons, R. J. 313 Erie ave. W.

868 Lyons, Robt. A. 436 Patterson ave.

Lorain, O.

Chicago, Ill.

Leslie Mi-1
1487 Lyons, J. B. 536 Chestnut st. 197 Lyons, R. J. 313 Erie ave. W.
1490 Lyons, S. A. ......
192 McAllister, Jas. 203 Dease st. Fort William, Ont. 1224 McAlpin, Hugh 1794 W. 47th st. Cleveland, O. 1066 McAlpin, Wm. 427 Dragoon ave. 972 McAlpine, Jno. 142 14th ave. Detroit, Mich.
  78 McArthur, John care First National Exchange Bank,
                                                      Port Huron, Mich.
1100 McAvoy, John 732 Homan ave.
                                                               Chicago, Ill.
 300 McCambridge, T.....
                                                Grand Haven, Mich.
1199 McCann, Saml. B. Box 348.

Marine City, Mich.

Boston, Mass.
1631 McCarthy, John Dominion House. Sandwich, Ont. 1833 McCauley, Chas. 408 Norris st. Escanaba, Mich.
1682 McCauley, Cor-
                               423
                                      5th st. Manitowoc, Wis.
         nelius
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Pennant
1810 McClinton, Wm.
                     346 14th st.
                                          Buffalo, N. Y.
      D.
1775 McComb, 'Jas.
                                          Algonac, Mich.
1853 McCormick, Neil 1146 Hudson ave. Detroit, Mich.
880 McCoy, G. A. 3208 Clinton ave.
                                          Cleveland, O.
513 McCoy, John 667 Mineral st.
                                         Milwaukee, Wis.
578 McCullagh, Geo. 77 Alexander ave. E. Detroit, Mich.
542 McDonald, Geo. 303 Hudson ave. Chicago, Ill.
1616 McDonald, Gaf-
                     Williams st. Marine City, Mich.
      ton W.
1652 McDonald, Jno. ▶ 1 M
                     253 Herkimer st. Buffalo, N. Y.
      Α.
1160 McDonald, J. H. Box 771. Marine City, Mich.
1462 McDonald, W. 3826 John av. N. W. Cleveland. O.
1725 McDonald, John
                     111 London st. W. Windsor, Ont.
      Alex.
1799 McDonald, John 127 Knox st. Ogdensburg, N. Y.
250 McDowell, Robt. 2162 W. 26th st. S. W. Cleveland, O.
 315 McEachern, A. 553 West ave. Buffalo, N. Y.
1549 McEwen, H. W. 1506 W. 28th st. 975 McFarlane, D. care Dr. Penton. 327 McFarlane, Dan 911 Baldwin ave. 1530 McGannon, W.
                     517 28th st.
                                           Chicago, Ill.
      Ρ.
1557 McGarry, Geo. 1378 W. 64th st. N. W. Cleveland, O. 1067 McGarry, J. 5814 Ellen ave. Cleveland, O.
988 McGarvey, Wm. 28 W. Trenton st. Cleveland, O.
712 McGinn, James 665 Mineral st. Milwaukee, Wis.
1315 McGregor, Wil-
son P. O. Box 285. Superior, Wis. 515 McGregor, W. F. 297 Quellette ave. Windsor, Ont.
1052 McGuire, N. 810 Milwaukee ave. W. Detroit, Mich.
1065 McIntosh, J. L. 54 Woodward ave. Detroit, Mich.
 767 McIntosh, M. G. 54 Woodward ave. Detroit, Mich.
941 McIntyre, Allen care F. B. Higgie & Co. Chicago, Ill.
1873 McIsaac, Neil .....
                                        Ludington, Mich.
 753 McKay, Alex. J. 96 Hazelwood ave. Detroit, Mich.
1854 McKay, Daniel 230 Lafayette st. Detroit, Mich.
 288 McKav. G. P. R. 212 Western Reserve bldg.
                                          Cleveland, O.
1453 McKay, W. J. 391 Orchard st.
                                        Chicago, Ill.
289 McKeeghan, John 609 Park bldg.
                                         Cleveland, O.
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Pennant.	ı
1857 McKenzie, Ken-	• •
neth	Teverton, Ont.
856 McKinley, Jas.	1717 Ontario st. Toledo, O.
1028 McLachlan, Arch.	
1080 McLachlan, D.	56 11th st. Detroit, Mich.
755 McLarty, Jas.	56 11th st. Detroit, Mich. 417 Avery ave. Detroit, Mich.
1757 McLaren, Benj.	
C.	50 Greenwood pl. Buffalo, N. Y.
1504 McLean, J. C.	1109 St. Clair st. Port Huron, Mich.
910 McLean, Wm. 1866 McLeod, D. W.	1437 Westwood ave. Lakewood, O. Cleveland, O.
1866 McLeod, D. W.	6102 Wakefield st. Cleveland, O.
1003 McLeod, Don-	•
ald	55 Auchinvale ave. Buffalo, N. Y.
1814 McLeod, Dugald	55 Auchinvale ave. Buffalo, N. Y. 63 Baynes st. Buffalo, N. Y.
Α,	130 Riverside ave. Buffalo, N. Y.
771 McMillan, Chas.	173 Morgan st. Buffalo, N. Y.
214 McNeil, J. S.	605 Adams st. Sault Ste. Marie, Mich.
1640 McNeill, John	130 Riverside ave. 173 Morgan st. 605 Adams st. Sault 806 Spruce st. Sault 130 Kingsbury st. 130 Riverside ave.  Buffalo, N. Y. Buffalo, N. Y. Ste. Marie, Mich. Chicago, Ill. Milwaukee, Wis.
1619 McQueen, W. S.	130 Kingsbury st. Chicago, Ill.
1561 McShane, D. W.	1637 Kinnick ave. Milwaukee, Wis.
307 McSweeney. J.	439 Maryland ave. Milwaukee, Wis.
1161 MacDonald, N.	267 Linwood ave. Detroit, Mich.
1415 MacLachlan, A.	·
. H.	1861 W. 47th st. Cleveland, O. R. F. D. No. 1, Box 79.
543 MacLean, D.	R. F. D. No. 1, Box 79.
	Michigan City, Ind.
1433 MacLean, W. J.	621 Wabash ave. Detroit, Mich.
1801 MacMillan, John	621 Wabash ave. Detroit, Mich. 2813 Indiana ave. Chicago, Ill.
1763 Mackey, Melvin	404 E. Ludington ave
	Ludington, Mich.
113 Madden, M. J.	1003 Kearney st. Port Huron, Mich.
1194 Maddock, J. B.	866 4th ave. Detroit, Mich.
1203 Maddock, T. C.	1003 Kearney st. Port Huron, Mich. 866 4th ave. Detroit, Mich. 866 4th ave. Detroit, Mich.
801 Madigan Tas A	care Brown & Co Buffalo N V
1073 Mahon A T	443 Military ave Detroit, Mich.
1660 Mahon I E	443 Military ave. Detroit, Mich
1615 Makon M H	Tug office str Penobscot
	Dullalo, IV. I.
1351 Mahon, W. M	5910 Detroit st. Cleveland. O.
576 Maitland Henry	1026 Wall st. Port Huron Mich.
1440 Maitre Frank	5910 Detroit st. Cleveland. O. 1026 Wall st. Port Huron, Mich. 935 Newhall st. Milwaukee, Wis.
A I I ATAILI C) A I GAIR	, , , , , , , , , , , , , , , , , , ,

Pennant.	
1082 Mallette, Paul	369 Hendricke st. Detroit, Mich. 411 Perry-Payne bldg. Cleveland, O.
A.	369 Hendricke st. Detroit, Mich.
176 Mallory, G. B.	411 Perry-Payne bldg. Cleveland, O.
205 Mallory, D. H.	National Bank of Elvria, Elvria, O.
1594 Maloney, Forest	care Dry Dock Co. Manitowoc, Wis.
1748 Maltby, Wm. G.	care Dry Dock Co. Manitowoc, Wis. 41 Mansion st. Ogdensburg, N. Y.
994 Manuel, F. W.	2707 S. Military st. Port Huron, Mich.
732 Mara, James	465 Military ave. Detroit, Mich.
1402 Martela S T	2/07 S. Military st. Port Huron, Mich. 465 Military ave. Detroit, Mich. 38 Hazelwood ave. Detroit, Mich. 308 Purdy st. Buffalo, N. Y. 68 Clay st. Manistee, Mich. Gladstone, Mich. 1132 Douglas blvd. Chicago, Ill. care J. T. Hutchinson, 1408 Rockefeller bldg. Cleveland. O.
1047 Martin Edward	308 Durdy of Duffelo N V
1875 Martin, Edward	506 Furdy St. Bullato, N. 1.
F Wienzer	68 Clay st Manistee Mich
1704 Mason, Chas D.	Gladstone, Mich.
749 Massey, I.	1132 Douglas blvd. Chicago, Ill.
1685 Massey, S. B.	care J. T. Hutchinson, 1408 Rockefel-
,	ler bldg., Cleveland, O.
1790 Massey, Chester	ler bldg., Cleveland, O.
A	5 Glen ave. Duluth, Minn.
1226 Mattison, E. F.	486 Trumbull ave. Detroit, Mich.
477 Maxon, F. C.	5 Glen ave. 486 Trumbull ave. B3 31st st. 1912 7th st. 1912 7th st. 1970 Const. 1970 Const. 1970 Potential Potential Mich. 1970 Const. 1970 Const. 1970 Const. 1970 Const. 1970 Const.
1276 Maxwell, Wm.	Marine City, Mich.
191 May, A. C.	1912 7th st. Port Huron, Mich.
1473 May, A. I.	579 Congress st. Detroit, Mich. 440 Junction ave. 6808 Fir ave. Cleveland, O.
1580 Masker S E	6909 Fin ave. Detroit, Mich.
613 Meikelham	0000 Fir ave. Cleveland, O.
Thos	641 Fernwood ave. Toledo, O. 1038 Water st. Port Huron, Mich. 122 Stanton st. Detroit, Mich.
1611 Meno. Jos. F.	1038 Water st Port Huron Mich
1582 Merckel, C. G.	122 Stanton st Detroit, Mich
344 Merritt, G. E.	212 Sevburn ave. Detroit, Mich.
1698 Meyer, Gust.	122 Stanton st. 212 Seyburn ave. 2237 N. Whipple st. Chicago, Ill.
1836 Millard, Wm.	The state of the s
L.	502 16th st. Port Huron, Mich.
1175 Millen, P. L.	Box 341. Romeo, Mich.
671 Millen, Wm. F.	Romeo, Mich.
781 Miller, Alex. B.	Box 564. Marine City, Mich.
1695 Miller, Chas. F.	502 16th st. Port Huron, Mich. Box 341. Romeo, Mich. Romeo, Mich. Box 564. Marine City, Mich. 2 Sherman st., care D. Sullivan & Co. Chicago, Ill.
	Chicago, In.
695 Miller, C. D.	213 Lincoln ave. N. Tonawanda, N. Y.
812 Miller, Hugh O.	100 Main st. Ogdensburg, N. Y. 1956 W. 47th st. Cleveland, O
1587 Milliken, Wm.	1956 W. 47th st. Cleveland, O.
1562 Milne, J.	Thornbury, Ont.

Pennant.	
736 Minor, F	R. F. D. No. 2, Port Huron, Mich. 593 Orchard st. Chicago, Ill. 31 Otis st. Chicago, Ill. 1504 to 1508 Rockefeller bloken
450 Minskey I P.	593 Orchard st Chicago III
1170 Minter Thos B	31 Otis st Chicago, Ill
708 Mitchell Alf	1504 to 1508 Rockefeller bldg
796 Mitchell, 7111.	Cleveland, O.
302 Mitchell John	908 Rockefeller bldg Cleveland O
1781 Mitchell Alvin	Algoria Mich
1817 Montgomery T	Algoliac, Mich.
Montgomery, J.	2020 7th at Dort Huron Mich
155 Montgomery I	908 Rockefeller bldg., Cleveland, O
100 MOHISOMETY, J.	
W. 656 Montgomery, W.	231 Melborn ave. Detroit, Mich.
oso montgomery, w.	611 Minnie st. Port Huron, Mich. 92 33rd st. Milwaukee, Wis Vermillion, O. West Park, O. West Park, O. 1406 W. 54th st. Cleveland, O. 224 Postal Telegraph Edg., care F. R Higgie Chicago III
1022 Mooder Chas E	O2 22-4 -4 Milmoules Wis
OFO Mooder W. H.	92 33rd St. Milwaukee, Wis.
y59 Moody, W. H.	Verminion, O.
103 Mooney, Edw.	west Park, O.
10/5 Mooney, wm.	west Park, O.
1821 Moore, Geo. W.	1400 W. 54th st. Cleveland, O.
412 Moore, C. K.	224 Postal Telegraph bldg., care F.
1570.35	B. Higgie, Chicago, III.
15/2 Moore, Frank	Box 8/8, Iwo Harbors, Minn.
254 Moore, H. R.	1551 W. Congress st. Chicago, III.
992 Moore, J. F.	390 Oakley, Chicago, Ill.
1022 Moore, S. S.	233 W. Front st. Erie, Pa.
1/02 Moore Wm. E.	care vance & Co. Milwaukee, Wis.
1/96 Moran, Jos. H.	B. Higgie, Chicago, Ill. Box 878, Two Harbors, Minn. 1551 W. Congress st. Chicago, Ill. 390 Oakley, Chicago, Ill. 233 W. Front st. Erie, Pa. care Vance & Co. Milwaukee, Wis. 231 S. Gratect st. Mt. Clemens, Mich.
255 MD.	R. F. D. No. 2, 544 Seminary ave. 52 16th st. 1544 E. 85th st. Cleveland, O.
355 Morgan, Jas. W.	R. F. D. No. 2, Geneva, O.
1/24 Morgan, M. F.	544 Seminary ave. Chicago, III.
1094 Morrison, J. N.	52 loth st. Detroit, Mich.
1/13 Morton, Edw. R.	1544 E. 85th st. Cleveland, O.
389 Morton, Edward	1304 Rockefeller bldg. Cleveland, O. 1721 W. 69th st. Cleveland, O.
1192 Mosher, Benj.	1721 W. 69th st. Cleveland, O.
822 Mosier, R. H.	624 S. Main st. Cheboygan, Mich.
339 Mulholland, Matt	
1806 Mulholland, C.	2069 W. 98th st. Cleveland, O.
1538 Murdock, Jno.	
Α.	613 5th ave. E. Ashland, Wis.
108 Murphy, Henry	613 5th ave. E. Ashland, Wis. 60 Verplank st. Buffalo, N. Y.
129 Murphy, S. M.	514½ Lake st. Ashtabula, O.
189 Murphy, S. N.	1874 W. 58th st. Cleveland, O.
F, A11	

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Pennant
1736 Murphy, H. A. 119 Carolina st. Ogdensburg, N. Y.
1742 Murphy, D. O. 177 State st.
                                                                                              Ogdensburg, N. Y.
Marine City, Mich.
                                                                                                            Courtright, Ont.
                                                                                                  Ogdensburg, N. Y.
                                                                                                 Ogdensburg, N. Y.
1804 Nelson, Olaf 3722 W. 36th st.
                                                                                                                      Cleveland, O.
1840 Nesbitt, Chas. J. Pleasant st. Marine City, Mich. 1829 Nesbitt, Wm. K. 640 6th st. Detroit, Mich. 1674 Ney, C. R. 1515 Lakewood ave. Lakewood, O. 464 Nicholson, D. care D. B. I. & W. Ferry Co.,
                                                                                                                      Detroit, Mich.
  151 Nicholson, Wm. 178 Quinby st. Grand Rapids, Mich.
1 Niland, M. Cape Vincent, N. Y. 1865 Noble, John Pittsburg Steamship Co., Cleveland.
1395 Nordahl, Arnold 2908 Carroll ave. Cleveland, O.
1623 Norvell, Walker 769 Congress st. E. Detroit, Mich.
 1818 Oakley, James 423 N. 8th st.
                                                                                                            Manitowoc, Wis.
1818 Oakley, James 425 N. 8th st. 350 O'Connor, R. O. 525 N. 2nd st. 1169 O'Day, Simon 729 Prospect ave. 1888 Ogden, Benj. F. 1390 W. 25th st. 1753 O'Hagan, Hugh 220 Grove st. 1726 O'Hagan, John 144 Grove st. 1693 Olsen, Gust. 2298 Whipple st. 1444 Olsen, John K. 1229 N. 41st ave. 1720 Olsen, Oscar 131 Walnut st. 358 Olson. O. 7008 Superior ave N. F. Claveland O. 1890 Olsen, Oscar 1890 O
 358 Olson, O.
1148 Olson, S.
7008 Superior ave. N. E. Cleveland, O.
care J. A. Calbick & Co. Chicago, Ill.
 1860 Olson, Samuel 431 Reed st. Milwaukee, Wis. 21 O'Neil Patrick 93 Rhode Island st. Buffalo. N. Y.
 1179 O'Neill, Patr'k
                                                            60 Morgan st. Buffalo, N. Y.
 1697 Ott, Frank
                                                                                                                      Elyria, O.
    547 Otter, Thos. W. 550 Mineral st. Milwaukee, Wis.
  1128 Owen, J. L. 10937 Detroit ave., The Etta, Suite 8,
                                                                                                                       Cleveland, O.
      97 Owen, J. Q. Box 21.
                                                                                                                       Corunna, Ont.
 1482 Packer, Wm. H. 2056 W. 95th st.
                                                                                                                         Cleveland, O.
   544 Page, Hiram C. .....
                                                                                                                   Union City, Pa.
 1657 Pardy, Robt. H. 612 Suffern st. Port Huron, Mich.
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Pennant.	•
1233 Parsons D R	198 Biddle ave. Wyandotte, Mich. 227 Woodland ave. Detroit, Mich. 269 Beankean st. 2065 W. 45th st. Cleveland, O.  91 Garner st. 10455 Ewing ave. 135 Baker st.  Buffalo, N. Y. So. Chicago, Ill. Detroit, Mich.
1182 Parsons H H	227 Woodland ave Detroit Mich
1201 Darsons T	060 Panelson at Detroit, Mich
1201 Farsons, J.	2045 M. Afile at Classification
1185 Parsson, F.	2005 W. 45th st. Cleveland, O.
1758 Patterson, Robt.	
. C.	91 Garner st. Buffalo, N. Y.
1269 Patterson, Wm.	10455 Ewing ave. So. Chicago, Ill.
1826 Pearson, Jno. J.	135 Baker st. Detroit, Mich.
1792 Peltier. Robt	,
D	R. F. D. No. 4. Mt. Clemens, Mich. Willoughby, O. 686 Prospect ave. care G. C. Hansen. 112 Reese st. Cleveland, O. Sandusky, O.
1807 Perew Frank D	River st Willoughby O
381 Dogow Tohn	686 Prospect ave Ruffele N V
760 Determine A. P.	ood Prospect ave, Dunato, N. P.
706 Peterson, And w	care G. C. Hansen Cleveland, O.
694 Peterson, C. A.	112 Reese st. Sandusky, O.
J.	2432 Center st. Milwaukee, Wis.
624 Peterson, H.	2064 Cornell rd. Cleveland, O.
329 Peterson, J. D.	423 Columbus ave. Sandusky, O.
1392 Peterson, M. S.	2432 Center st. 2064 Cornell rd. 423 Columbus ave. 94 Triangle st. 832 S. Madison st.  Milwaukee, Wis. Cleveland, O. Sandusky, O. Buffalo, N. Y. Green Bay, Wis.
716 Peterson, Peter	832 S Madison et Green Bay Wis
1220 D . D .	502 S. Madison St. Green Bay, 1113.
1329 Teterson, Feter	1323 E. 86th st. N. E. Cleveland, O. 18 Lake st. 1965 W. 50th st. Str. City of Erie 504 Lake ave. 764 Field ave. 229 Sheffield ave. 229 Sheffield ave. 23 Carry st. Sault Ste. Marie Mich.
A. 1607 Dataman W. I	19 J - 1 - 24 Manietes Mich
1007 Peterson, 1. J.	18 Lake st. Manistee, Mich.
14/5 Phillips, Geo. L.	1965 W. 50th st. Cleveland, O.
1524 Pickell, E. S.	Str. City of Erie. Cleveland, O.
801 Pierce, G. W.	Port Hope, Mich.
1667 Pierce, Wm. L.	504 Lake ave. Duluth, Minn.
1882 Place, John	764 Field ave. Detroit, Mich.
1681 Plummer, Wm.	229 Sheffield ave. Chicago, Ill.
1541 Pocock, H A	723 Carry st. Sault Ste. Marie, Mich.
1039 Post Tos W	Sandusky O
1858 Post Samuel G	Sandusky, O. Chicago, Ill.
1738 Downers Tohn T	203 Tay of Ordensburg M V
1/00 Fowers, John J.	1121 Hanner of a Done Human With
1244 Durates To D	24 Milliage St. Fort fluron, Mich.
1344 Preston, Jno. R.	24 Millington ave. Newark, N. J.
229 Pringle, John C.	501 Front st. St. Clair, Mich.
1528 Pringle, Robt. C.	1439 Lakeland ave. Lakewood, O.
1515 Pringle, Wm. J.	203 Jay st. Ogdensburg, N. Y. 1131 Howard st. Port Huron, Mich. 24 Millington ave. Newark, N. J. 561 Front st. St. Clair, Mich. 1439 Lakeland ave. Lakewood, O. 1794 W. 48th st. N. W. Cleveland, O.
1256 Quinlan, Wm.	744 14th ave. Detroit, Mich.
,	
177 Rae, F. H.	Vermillion, O. Vermillion, O.
558 Rae, Frank C.	
Joo Mac, Flank C.	····· • • • • • • • • • • • • • • • • •

Pennant.	
	Buffalo Union Furnace Co.,
1204 Rains, E. 1.	Duffalo N V
1042 David T A	1022 Tales area Wilmosta III
1043 Rand, L. A.	1025 Lake ave. Wilmette, III.
1522 Randall, A. E.	o Catherine st. Ashtabula, O.
1590 Randall, F.	Buffalo Union Furnace Co.,  1023 Lake ave. 6 Catherine st. 1549 E 85th st. 540 Holden ave. 122 Woodworth Marine City, Mich. Marine City Mich.
1805 Randolph, Geo.	1549 E 85th st. Cleveland, O.
1435 Rattray, C.	540 Holden ave. Detroit, Mich.
1850 Rattray, Wm. P.	122 Woodworth ave.
,	Marine City, Mich.  Marine City, Mich.  665 Sheridan ave. Detroit, Mich.
1848 Recor, Edgar O.	Marine City, Mich.
1434 Recor, Geo. F.	665 Sheridan ave. Detroit, Mich.
1842 Recor. Robt.	·
Tas.	Mary st. Marine City, Mich.
1635 Redner Elmer	Mary st. Marine City, Mich.
F	Box 234 Kalkaska Mich
1105 Peace G O	1008 Clinton ave St Clair Mich
1254 Pand Wm A	Roy 713 Marine City Mich
1234 Reed, Will. A.	4040 Wahash and Chiago III
1207 D.: 1 TO II	Mary st. Marine City, Mich.  Box 234. Kalkaska, Mich. 1008 Clinton ave. St. Clair, Mich. Box 713. Marine City, Mich. 4040 Wabash ave. Chicago, Ill. 1698 W. 69th st. Cleveland, O. 1708 Melrose ave. Chicago, Ill. Cleveland, O. Buffalo, N. Y. 4208 John ave. N. W. Cleveland, O.
1307 Keid, F. H.	1700 M. 1911 St. Cleveland, U.
11/1 Reid, Robt., Jr.	1708 Melrose ave. Chicago, III.
1/11 Reid, Wm. C.	7500 W. Madison st. Cleveland, O.
28 Reilly, Cornelius	53 Robie ave. Buffalo, N. Y.
708 Rice, Frank	4208 John ave. N. W. Cleveland, O.
782 Rice, Phillip	Fargo, Ont.
133 Richardson, H.	Fargo, Ont.  East Aurora, N. Y. R. F. D. No. 3. Harbor Beach, Mich. 11 and 13 Main st. Buffalo, N. Y. 700 La Salle ave. Chicago, Ill. 91 Orange st. Buffalo, N. Y. 515 Lafavette st. Grand Haven Mich.
1143 Rinn, W.	R. F. D. No. 3. Harbor Beach, Mich.
1843 Ritchie, W. S.	11 and 13 Main st. Buffalo, N. Y.
287 Roach, P. C.	700 La Salle ave. Chicago, Ill.
279 Robarge, G. E.	91 Orange st. Buffalo, N. Y.
902 Robertson, G.	515 Lafayette st. Grand Haven, Mich.
1283 Robinson, A. R.	1274 E. 89th st. Cleveland, O.
1710 Robinson, John	1274 E. 89th st. Cleveland, O.
W	3311 W 98th st Cleveland O
1377 Pobinson Sal'm	224 Spruce st Detroit Mich
40 Dobinson, 34 III	224 Spince St. Detroit, Mich.
1755 Dolonia Torri	16 Ada alara Dunale, N. 1.
1733 Roiseng, iver	3311 W. 98th st. 224 Spruce st. 326 15th st. 16 Ada place. Sault Ste. Marie, Mich. 694 Auburn ave. 12 Lincoln ave. Conneaut Harbor. O. 97½ Main st. Cleveland, O. Detroit, Mich. Buffalo, N. Y. Buffalo, N. Y. Walkerville, Ont. Conneaut Harbor. O.
JU KOOT, F. D.	Sault Ste. Marie, Mich.
1601 December 1	094 Audurn ave. Buffalo, N. Y.
1001 Ross, James	12 Lincoln ave. Walkerville, Ont.
821 Rowan, Murd'ck	Conneaut Harbor, O.
1741 Russell, Henry	97½ Main st. Ogdensburg, N. Y.

Pennant.	
546 Sanders, Jos. 1088 Sanders, Thos.	5208 Tillman ave. N. W. Cleveland, O.
Н.	301 Perry-Payne bldg. Cleveland, O.
223 Saph, C. M. 1472 Saph, J. P.	care Hotel Edmund Waukegan, Ill.
1472 Saph, J. P.	316 Fairhome ave. Lorain, O.
1413 Saunders, Jas.	•
M. 1732 Sawyer, Edwin	34 Laird ave. Buffalo, N. Y.
L.	
1163 Sayre, C. E.	Mason, Mich.
496 Schwerman, Fr.	R. F. D. No. 3, Sta. D.
1610 0 0	Milwaukee, Wis.
1613 Scott, G. H.	834 Pine st. Port Huron, Mich.
509 Scott, W. B.	488½ Walker st. Milwaukee, Wis.
1313 Secord, C. D.	Main at Marine City Mich
1226 Shackett, Henry	Main St. Marine City, Mich.
1648 Shaw Fdw T	406 Oak et Buffalo N V
799 Shaw, Geo A	834 Pine st. 488½ Walker st. 39 Holland pl. Main st. 444 Canton ave. 406 Oak st. Linion Trust bldg.  Milwaukee, Wis. Milwaukee
579 Shaw, John C.	Union Trust bldg. Detroit, Mich.
963 Shaw, W. W.	Marine City, Mich. Union Trust bldg. 3122 Rhodes ave. 111 Knox st. Ogdensburg, N. Y. 76 Patterson st. 281 Oak st. Box 117. 2105 Warren rd. 1730 Randall road. 462 N. Water st.  Buraio, N. Y. Marine City, Mich. Chicago, Ill. Ogdensburg, N. Y. Chicago, Ill. Goderich, Ont. Lakewood, O. Cleveland, O. Chicago, Ill.
1751 Shay, E. B.	111 Knox st. Ogdensburg, N. Y.
55 Shay, W. S.	76 Patterson st. Ogdensburg, N. Y.
1638 Shea, Jos. A.	281 Oak st. Chicago, Ill.
566 Shephard, A. M.	Box 117. Goderich, Ont.
54 Sherwood, D. N.	2105 Warren rd. Lakewood, O.
1550 Simmons, T. G.	1730 Randall road. Cleveland, O.
1784 Simons, John	462 N. Water st. Chicago, Ill.
1700 Simbson, Ticu	
J. 376 Sinclair, Alex.	911 Baldwin ave. Detroit, Mich.
376 Sinclair, Alex.	
R.	519 Michigan st. Port Huron, Mich.
1362 Sinclair, C. H.	2037 Military st., care D. M. Sinclair,
	Port Huron, Mich.
377 Sinclair, D. M.	2037 Military st. Port Huron, Mich.
1104 Sinclair, J. H.	
057 01 11 7 377	1408 7th st. Port Huron, Mich.
857 Skeldon, Jas. W.	2037 Military st. Port Huron, Mich. 1408 7th st. Port Huron, Mich. 825 Erie st. Toledo, O.
622 Cleiffmaton T	
622 Cleiffmaton T	
622 Cleiffmaton T	
622 Cleiffmaton T	1408 7th st. 825 Erie st. Port Huron, Mich. Toledo, O.  163 Jos. Campau. Detroit, Mich. 309 Campbell ave. Sandusky, O. Box 534. Charlevoix, Mich. R. F. D. No. 6, Box 9. Mexico, Mo.

Pennant.
1745 Smith, John J. 45 Hamilton st. Ogdensburg, N. Y. 1480 Smith, P. H. 9712 Logan ct. N. E. Cleveland, O.
1480 Smith, P. H. 9712 Logan ct. N. E. Cleveland, O.
1780 Smith, Sidney
H. Algonac, Mich. 1476 Sniffin, B. N. 503 N. 5th st. Manitowoc, Wis.
1476 Sniffin, B. N. 503 N. 5th st. Manitowoc, Wis.
1249 Soleau, O. J. Milwaukee Tug Boat Line, Milwaukee, Wis.
231 Spear, E. P. 1629 E 118th st. Cleveland, O.
1782 Stager, Peter Algonac, Mich.
1246 Stalker A W 565 Church st F Toledo O
348 Stalker Dungen 522 Woodwille at E Toledo, O.
1782 Stager, Peter
470 Samles First C 700 2011 in Mrs. Cieveland, U.
479 Starke, Fred C. 700 30th st. Milwaukee, Wis.
921 Steibel, John 713 Perry st. Sandusky, O.
1344 Stephens, II. Lerrace Hill, Grand ave.
London, Ont. 1354 Stephens, T. J. 126 W. Dunbar st. Alpena, Mich. 1889 Stern, Wm. H
1354 Stephens, T. J. 126 W. Dunbar st. Alpena, Mich.
1889 Stern, Wm. H Marine City, Mich.
1183 Stevens, E. P. 90 Tug office. Milwaukee, Wis.
1114 Stevenson, G. C. 110 Greenwood Place Ruffalo N. V.
418 Stevenson Hugh 470 Bird ave Ruffalo N V
1654 Stevenson, Thos. 57 Royal ave. Buffalo, N. V.
418 Stevenson, Hugh 470 Bird ave. 1654 Stevenson, Thos. 57 Royal ave. 1677 Stevenson, Wm. 2121 7th st.  Buffalo, N. Y. Buffalo, N. Y. Port Huron, Mich.
1412 Stevenson, W Port Huron, Mich.
THE SIEVERSOR, VV.
H. 144 Riverside ave. Buffalo, N. Y. 586 Stewart, A. E. Board of Education. Detroit, Mich. Algonac, Mich.
586 Stewart, A. E. Board of Education. Detroit, Mich.
1770 Stewart, Jas. P Algonac, Mich.
486 Stewart, John care Adolph Reichle, Auditor, Benton Harbor, Mich. Algonac, Mich.
Benton Harbor, Mich.
1769 Stewart, Millard Algonac, Mich.
1489 Stewart, W. G. care Gilchrist Trans. Co.,
Cleveland, O.
967 Still, Hiram R. F. D. No. 4. Birmingham, Mich.
1743 Stitt, Wm. J. 185 State st. Ogdensburg, N. Y.
636 Stoddard, Lewis 488 Putnam ave. Detroit, Mich.
184 Stone, H. W. 54 Hastings ave. E. Cleveland, O.
760 Stone I W
760 Stone, L. W
1712 Story, Wm. J. 30 Kingsville ave. Ashtabula, O. 262 Stough, L. 1711 W. 31st pl. Cleveland, O.
262 Stough, L. 1711 W. 31st pl. Cleveland, O.
1574 Strahan, L. F. 1324 Pierce ave. Marinette, Wis.
1855 Stuart, Thos. J. 161 Cottrell ave. Detroit, Mich.
1872 Stufflebeam, Inc. 503 Court st. Ludington, Mich
371 Sullivan, D. C. 625 Prospect ave. Milwaukee, Wis.

Pennant.		
1676 Sullivan, N. M.	1953 Superior st.	Toledo, O.
1303 Sutherland, W.		
T. 363 Swain, Martin	1106 Dansman st. C	reen Bay, Wis.
363 Swain, Martin	471 Wabash ave.	Detroit, Mich.
	<b></b>	
1709 Talbot, A. J. 1410 Talbot, Geo. E. 1680 Taylor, Edw. 1157 Taylor, Jas. 1096 Teare, F. S. 79 Tebo, G. 422 Thompson, J. C.	541 Lake Side ave.	Lorain, O.
1410 Talbot, Geo. E.	Highland Park, Wa	lyne Co., Mich.
1080 Taylor, Edw.	2232 W. Monroe St.	Cnicago, III.
115/ Taylor, Jas.	The Rouleward	Painesville O
70 Teho G	1636 Poscoe st	Chicago III
422 Thompson, I. C.	4202 Railey ave S W	I Cleveland O
1795 Thompson, Mer-	izoz panej ave. b. v	. Oleveland, O.
win S.	144 Erie st.	Painesville, O.
1050 Thompson, 'Pet-		
er	104 Russell ave.	Buffalo, N. Y.
1500 Thompson, Robt	.2325 E. 100th st.	Cleveland, O.
1591 Thompson, W.		
1722 Inompson, J. C. 1795 Thompson, Merwin S. 1050 Thompson, 'Peter 1500 Thompson, Robt 1591 Thompson, W. F. 657 Thorburn, John	811 E. 4th st.	Duluth, Minn.
657 Thorburn, John	Mrs. W. A. Meddaug	gh,
61 Thomas William	202 D- 1- 4	Vestnope, N. D.
560 Thorne, William	205 N Hanner of W	Par City Mich
60 Thorne F F	231 West ave	Buffalo N V
1207 Thrall, Preston	293 Park st. 305 N. Henry st. W. 231 West ave.	Dullaio, N. 1.
1207 Thrall, Preston F. 1469 Tisdale, Geo. B. 719 Tomlin, Wm. J. 616 Tormey, Ed. 167 Tower, Chas. B. 1051 Tower, John	G	reen Bay. Wis.
1469 Tisdale, Geo. B.		Douglass, Mich.
719 Tomlin, Wm. J.	2548 Lawrence ave.	Toledo, O.
616 Tormey, Ed.	164 Bagg st.	Detroit, Mich.
167 Tower, Chas. B.	4102 Clinton st.	Cleveland, O.
1051 Tower, John	care Milwaukee Tug	Boat Line,
1016 m · r	I	Milwaukee, Wis.
1216 Travis, James	710 Maiquette blug.	care Spauluing
1706 Tradabl II II	D E D No 2	o., Chicago, Ill.
206 Trottier G N	R. F. D. NO. 4,	Datroit Mich
1055 Tulian Gaine D	04 Walnut et	Ashtahula O
1706 Trodahl, H. H. 206 Trottier, G. N. 1055 Tulian, Gaius D. 1463 Tyre, T. J.	R F D No 5	Pontiac. Mich.
J, <b></b> J.	D. 110. U.	

508 Vance, L. R. 208 Mitchell bldg. Milwaukee, Wis. 1371 Van Gorder, C. ........... Marine City, Mich.

Pennant.

1501 Van Slet, Abram 1581 Vaughn, J. F. 1369 Vrooman, G. H.	1959 W. 22d st. N. W. Cleveland, O. 795 Elm st. Buffalo, N. Y. care John Perew, 686 Prospect ave. Buffalo, N. Y.
1001 Walder, R. J. 844 Walker, N. B. 294 Wallace, Chas. H.	7413 Rutledge ave. Cleveland, O. 952 Clark st. E. Toledo, O. care Pittsburg Coal Co., R'y Exch. Bldg., Chicago, Ill.
1621 Walper, Henry 980 Walsh, Jas. A. 651 Waltman, Jos. 965 Ward, J. 783 Ward, Julius A. 1260 Warner, J. B. 1514 Warner, W. B.	24 Exchange st. Vermillion, O. 97 Morris st. Ogdensburg, N. Y. 597 Vinewood ave. Detroit, Mich. 1301 New England bldg. Cleveland,O Marine City, Mich. 414 5th st. E. Toledo, O. Box 223. Algonac, Mich. 18 Terrace. Buffalo, N. Y. 1108 Military st. Port Huron, Mich. 731 Bancroft st. Port Huron, Mich. 18 Ada pl
1188 Warwick, Henry 556 Warwick, J. H. 1825 Warwick, E. M. 1669 Watson, C. W. 1404 Watson, F. C. 336 Watts, Jas. B. 1124 Wauwig, Jno. D. 1722 Weaver, Geo.	18 Terrace. 1108 Military st. 731 Bancroft st. 18 Ada pl. 6800 Wakefield ave. 108 Jay st. 404 Webster pl. Buffalo, N. Y. Port Huron, Mich. Buffalo, N. Y. Cleveland, O. Detroit, Mich. Milwaukee, Wis.
305 Weeks, J. L. 932 Weimar, Fred.	
1647 Weinheimar, F. W. 1649 Weinheimer, E.	Chicago, Ill.  261 Grant st. Buffalo, N. Y.  Lake View, N. Y.
J. 1312 Weinheimer, F. L. 1822 Weitzman, Jr.,	
Chas, Alex. 1548 Wemster, C. T.	540 N. 3rd st. St. Clair, Mich. 8 Woodward ave. Detroit, Mich. 71 Barton st. Buffalo. N. Y.

Pennant.	
1385 White, A. E.	Washington, Mich. 55 Copeland Place. Buffalo, N. Y.
1567 Whiteside, J. A.	55 Copeland Place. Buffalo, N. Y.
1813 Whitney, Wal-	
ter M.	Henderson, N. Y. National Bank of Com. Lorain, O. 343 W 21st st Erie Pa
196 Wilford, T.	National Bank of Com. Lorain, O.
1045 Wilkins, W.W.	343 W. 21st st. Erie, Pa.
1597 Wilkinson, C.	830 Fort st. East. Detroit, Mich.
1151 Wilkinson, Fred-	343 W. 21st st. Erie, Pa. 830 Fort st. East. Detroit, Mich.
erick	248 Hellen ave. Detroit, Mich.
1077 Wilkinson, Jno.	Ft. Woodward ave. Detroit, Mich.
1762 Wilkinson, Robt.	248 Hellen ave. Detroit, Mich. Detroit, Mich.
В.	27 Merrimac st. Buffalo, N. Y. 1864 W. 50th st. N. W. Cleveland,O. 
1335 Willet, L.	1864 W. 50th st. N. W. Cleveland, O.
1039 Williams A M	3723 W. 36th st. Cleveland, O.
410 Williams, A. M.	2200 Jackson Boulevard Chicago III
1044 Williams Edw	2200 Jackson Boulevard. Chicago, Ill. 231 Columbus ave.
· · · · · · · · · · · · · · · · · · ·	Dantan Hankan Mish
1484 Williams, Wm.	31 Clarence ave. Lakewood, O. 800 Trumbull ave. Detroit, Mich.
A.	31 Clarence ave. Lakewood, O.
352 Williams, W. H.	800 Trumbull ave. Detroit, Mich.
1837 Williamson, P.	•
Τ.,	Pearl st. Marine City, Mich.
1880 Williscroft, Jno.	
E. 1050 31731	Southampton, Ont.
1058 Willoughby, W.	142 Daywell and Window Out
J. 1593 Wilman, Dan.	142 Dougall ave. Windsor, Ont. Cleveland, O.
1471 Wilson, C. H.,	
Jr	506 W. 5th st. Erie, Pa. 164 Willis ave. Detroit, Mich. 559 W. 7th st. Erie, Pa.
596 Wilson, Chas. L.	164 Willis ave Detroit, Mich.
63 Wilson, Chas. H.	559 W. 7th st. Erie. Pa.
693 Wilson, Geo. U.	109 Philadelphia ave. Detroit, Mich.
1408 Wilson, Wm.	217 McKinsterr ava Datroit Mich
1628 Woerpel, H.	24 West Montana st. Chicago, Ill.
285 Wood, Jas. O.	3320 Lowe ave. Chicago, Ill.
1533 Wood, J. S.	24 West Montana st. 3320 Lowe ave. 1705 E. 84th st. Chicago, Ill. Cleveland, O.
761 Woodford, C.	
H.	3788 W. 34th st. S. W. Cleveland, O.
1133 Woods, Jno.	184 E. Water st. Milwaukee, Wis.
1749 Woods, Wm. O.	222 Washington st. Ogdensburg, N.Y.
1121 Woodward, C.	
D.	10078 Republic ct. N. E. Cleveland,O.

#### NAMES AND ADDRESSES.

Pennant. 503 Wright, Wm. 1323 Wulke, John J.		Milwaukee, Wis. Buffalo, N. Y.
1643 Yates, Wm. H. 679 Yax, J. E. 819 Young, J. P. 1575 Young, Peter 40 Young, Robt. 1849 Young, Wm.	278 Melbourn ave. 1539 E. 55th st. 115 Elizabeth st. E 343 2nd st. 1523 Eastwood ave R. F. D. No. 1.	Cleveland, O. Detroit, Mich. Manistee, Mich. Chicago, Ill.

# NAMES AND ADDRESSES OF ASSOCIATE MEMBERS, SHIP MASTERS' ASSOCIATION.

Pennant. Name	Address.	City.
A 1 C. T. Williams, A 2 Chas. P. Gilchrist,	69 Boulev'd St., Mayf	
A 2 Chas. P. Gilchrist,	560 Franklin Ave.,	
A 3 J. U. Karr,	171 River St.,	Cleveland, O.
A 4 W. B. Davock,	826 Logan Ave.,	Cleveland, O.
A 5 William H. Hill,	712 Western Reserve	
A 6 John F. Wedow,	93 Tilden St.,	Cleveland, O.
A 7 L. Hausheer, Jr.,	93 Then 5t.,	Cleveland, O. Lakewood, O.
A 8 John D. Gilchrist,	379 Amesbury St.,	Cleveland, O.
A Officer W Hoson	1310 River Ave N W	Cleveland, O.
A 9 Oliver W. Upson, A 10 J. B. Rodgers,	175 Highland Ave	Ruffalo N V
A 11 D. P. Craine,	Schlitz Hotel, M	Iilwaukee, Wis.
A 12 A. T. Harvey,	881 Case Ave.,	Cleveland, O.
A 13 Harvey D. Goulder		Cleveland, O.
A 14 W. P. Murray,	720 Genesee St.,	Cleveland, O.
A 15 J. D. Ashley,	242 Oliver St.,	Cleveland, O.
A 16 W. H. Becker,	•	Dover, O.
A 17 H. Leonard Wilton	523 Cass Ave.,	Detroit, Mich.
A 18 Hermon A. Kelley,		id Heights,
		Cleveland, O.
A 19 J. A. Gilchrist,	Route No. 1,	Panna, O.
A 20 James J. Rardon,	55 Dearborn Ave.,	Chicago, Ill.
A 21 Robert J. Dunham,	381 No. Halsted St.,	Chicago, Ill.
A 22 Marcus M. Drake, A 23 Wm. E. Halmes,	346 Lafayette Ave.,	Buffalo, N. Y.
A 23 Wm. E. Halmes,	20 Delaware Place,	Chicago, Ill.
A 24 William H. Wood,	005 Evanston Ave.,	Chicago, Ill.
A 25 D. Sullivan,		Chicago, Ill.
A 26 J. H. Sheadle,	Norfolk Road, Euclid	
A 27 Chas. W. Elphicke,		Cleveland, O.
A 28 Ray G. McDonald,	620 First Not Bonk	Evanston, Ill.
A 20 Ray G. McDollaid,	030 First Nat. Bank	Chicago, Ill.
A 29 George J. Harris,	462 North Water St.,	Chicago, III.
A 30 Henry J. Pauly,	207 14th St., N	silwaukee, Wis.
A 31 W. A. Hawgood,	79 Bell Ave.,	Cleveland, O.
A 32 H. Coulby,	,,,	Cleveland, O.
A 33 M. A. Bradley,	1378 Euclid Ave.,	Cleveland, O.
A 34 T. F. Newman,	724 Genesee St.,	Cleveland, O.
A 35 Frank W. Fletcher	•	
A 36 G. A. Tomlinson,		Alpena, Mich. Duluth, Minn.

Pennant.	Name.	Address.	City.
A 37 Ralph	D. Mitchell.	, 2170 Euclid Ave.,	Cleveland, O.
A 38 F. B.	Wadhams,	465 Willson ave.,	Cleveland, O.
A 39 D. C.	McIntyre.	2215 73rd St.,	Cleveland, O.
A 40 John	H. Schlosser,	,22 Hanover st., M	lilwaukee, Wis.
A 42 Teas	gan, John O.	1065 Jefferson Ave.,	Detroit, Mich.
A 43 Mey	er, Christ J.	98 Ferry St., Wa	uwatosa, Wis.
A 44 Park	ter, C. L.	326 St. Alban Ave.,	Detroit, Mich.
A 45 Fred	W. Green,	3184 West 95th St.,	Cleveland, O.
A 46 John	J. Boland,	794 South Park Ave.,	Buffalo, N. Y.
A 7/ S. YY.	Goula,	1393 E. OUII 31. N. E.,	
A 48 James	McAlpine,	1217 Chamber of Con	
			Buffalo, N. Y.
A 49 W. E	Lloyd,	152 West Ave.,	Buffalo, N. Y.
A 50 J. J.	H. Brown,	141 Lancaster Ave.,	Buffalo, N. Y.
A 51 Harve	y L. Brown,	439 Richmond Ave.,	Buffalo, N. Y.
A 52 C. S.	Mahoney,	62 York St.,	Buffalo, N. Y.
A 53 J. B.	Rodgers,	1217 Chamber of Con	imerce,
A PÀTE C	<b>D</b>	407 337 1 1 1	Buffalo, N. Y.
A 54 F. G.	Rogers,	485 Woodward Ave.,	Buffalo, N. Y.
A 55 John	B. Richards, L. Tuttle,	226 Bryant St.,	Buffalo, N. Y. Buffalo, N. Y.
A 50 Dell .	L. Tuttle,	356 Norwood Ave.,	Bunaio, N. Y.
A 57 John	Connelly,	126 Fargo Ave.,	Buffalo, N. Y.
A 30 J. C.C	berschiemer,	1217 Chamber of Com	Buffalo, N. Y.
4 50 M C		254 5	
A 59 M. Co	onnony,	254 Swan St.,	Buffalo, N. Y.
A 60 Adam	E. Cornelius,	90 Dodge St.,	Buffalo, N. Y.
A 61 J. C.	Evans,	4 mt - TT - 1 - T - 1 - 1	• •
A 02 Fred	J. Maxwell,	4 The Hazel, Lakelan	
A 62 T T	**	11447 5 114 4	Lakewood, O.
A 63 J. E.	Upson,	11447 Euclid Ave.,	Cleveland, O.
A 04 Steinb	renner, G. M.	1545 E. 86th St.,	Cleveland, O.
A 65 Trinte	er, W. P.	2313 E. 55th St.,	Cleveland, O.
A 66 Body,	G. F.	601 Canal Road,	Cleveland, O.
A 67 Rennic	k, Thomas J.	70 Market St.,	Ashtabula, O.
A 68 Oakes	, K.	46 Palmer Ave.,	Detroit, Mich.
A 69 T. A.	Cheney,	25 Walnut St.,	Ashtabula, O.
A 70 E. La			ort Harbor, O.
A 71 H. W	'. McGean,	1845 E. 79th St.,	Cleveland, O.
A 72 (. T.	Hutchinson	18 Grace Ave.,	Lakewood, O.
A 73 A. F.	Leopold	3905 Whitman Ave.,	Cleveland, O.
A 74 H. B.	Deoleo	2200 E 024 C4	Cleveland, O.
		2309 E. 93d St.,	-,
A 75 Henry	null,	Williams St.,	Huron, O.

#### NAMES AND ADDRESSES.

Pennant. Name.	Address.	
A 76 C. C. Lanken,	Astor Apts., Craw	
A 77 Jas. O'Connor,	167 Morgan St., 7	Cleveland, O.
A 78 E. H. Burrill,	54 Spruce St.,	
A 79 W. J. Douglas,	67 Washington St	
		gdensburg, N. Y.
A 80 Edw. Smith,	· 444 Linwood Ave.,	
A 81 E. C. Collins,	Buffalo Dry Do 3310 Carnegie Ave	
A 82 C. C. Canfield.	10215 Westchester	
	10,210 11 001011010101	Cleveland, O.
A 85 Frank Seither,	3070 W. 20th St.,	Cleveland, O.
A&'Jos. Kendrick,	906 Society for Sa	
A Of Thee W. Chariff	277 2546 C4	Cleveland, O. Milwaukee. Wis.
A 85 Thos. W. Sheriff, A 86 Carl C. Joys.	277 25th St., 358 Hanover St.,	Milwaukee, Wis.
A 27 Jos. Davidson.	356 Virginia St.,	Milwaukee, Wis.
A 88 W. C. Starke,	137 18th St.,	Milwaukee, Wis.

### MEMBERS OF THE SHIP MASTERS' ASSOCIATION.

### Arranged According to Pennant Numbers.

	Lodge No.	NAME.	Pen- I nant.		NAME.
		Niland Martin	133	1	Dichardson Harry
1 4		Niland, Martin Dissette, John H.	138	2	Richardson, Harry Davis, Henry
15		Ivers, John H.	140	9	Powrie, P. F.
17			144	2 3 3 3	Hogan Tames
21	i	Dunn, John O'Neil, Patrick	149	3	Hogan, James Carr, James
22		Hogg G L	151	ä	Nicholson, Wm.
28	î	Hogg, G. L. Riley, Cornelius	155	7	Hart, Fred C.
35		Clarke, Geo. H.	158	4	Greenley, A. J.
40		Young, Robert	160	$\bar{4}$	Hoover, N. E.
$4\overset{\circ}{2}$	ĭ	Fletcher, William	163	$\bar{4}$	Mooney, Edward
44		Chapman, A. C.	164	4	Lowe, James B.
49		Robinson, Walter	167	4	Tower, Chas. B.
50	1	Corcoran, Joseph	169	4	Cleveland, G F.
54	4	Sherwood, D. N.	170	1	Hall, John B.
55	1	Sherwood, D. N. Shay, W. S.	174	4	Brown, Frank H.
56	3	Root, F. D.	176	4	Mallory, G. B.
61	7	Thorne, William	177	4	Rae, F. H.
63	1	Wilson, Chas. H.	182	4	Lowe, John
69	1	Thorp, E. F.	184	4	Stone, Henry W.
71	3	Chamberlain, Wm.	185	4	Lockwood, C. W.
73		Gibson, James	189	4 2 2	Murphy, S. N.
78	2	McArthur, John	191	2	May, A. C.
79	3	Tebo, George	192	2	McAllister, James
89		Kendall, H. J.	194	4	Cowley, Robert
96		Bordeaux, Dav. O.	196	4	Wilford, Thomas
97		Owen, John Q.	197	4	Lyons, R. J.
104		Berow, Joseph H.	199	3	Disher, William
105		Durker, Henry	200	3	Galagher, Anthony
108		Murphy, Henry	202	4	Cummings, H.
113	2	Madden, M. J.	206	7	Trotter, Geo. N.
115	2	Anderson, E. B. Coleman, Jeremiah	214	3	McNeil, J. S.
116		Coleman, Jeremiah	222	6	Ballentine, E. D.
119		Little, John W.	223	4	Saph, C. M.
120		Grasser, George	227	2	Buzzard, John
121 128		Davis, E. H.	229	2	
128		Driscoll, Dennis	231	4	Pringle, John C.
149	1	Murphy, Stephen	_	4	Spear, E. P.
		41			

Pen- L		NAME.	Pen- Lodg nant. No	
234	4	Benham, C. E.	359 <b>3</b>	Jenks, John
235	3	Higgie, F. B.	362 3	Higgins, Thomas
247	4	Fick, Frank A.	363 7	Swain, Martin
250	4	McDowell, Robert	370 3	Swain, Martin Clow, J. M.
252	3	Chron, Thomas	371 6	Sullivan, D. C.
253	7	Armstrong, Byron	373 3	Everett, Anthony
<b>254</b>	3	Moore, H. R.		
256	3	Campbell, J. M.	376 2	Sinclair, Alex. R.
257	3	Campbell, J. M. Cazallis, Raymond	375 2 376 2 377 2 381 1	Sinclair, Alex. R. Sinclair, D. M.
262	4	Stough, Lafayette	381 1	Perew, John
264	4	Humphrey, W. H.	388 2	Harrow, W. B.
266	4 .	Mallory, D. H.	389 4	Morton, Edward
269	4	Holmes, Jos. A.	391 4	Hinslea, Chas. H.
272	4	Ennes, C. G.	394 1	Johnson, John
274	4	Holmes, Jos. A. Ennes, C. G. Collier, Wm. A.	396 4	Gerlach, William
279	1	Roebarge, G. E.	407 4	Gerlach, William Doville, Jos.
283	3 7	Loftus, H. F.	409 10	Kiah, D. A.
284	7	Little, C. E.	410 3	Williams, David
285	3	Wood, James O.	412 3	Moore, Chas. K.
287	3	Roach, P. C.	413 3	Brown, James A.
288	4	McKay, Geo. P.	418 1	Stevenson, Hugh
289	4	McKeeghan, John	422 4	Thompson, J. C.
290	4	Call, Richard	423 7	Girardin, David J.
293	4	Chapman, C. B.	427 4	Benham, Chas. A
294	4	Wallace, Chas. H.	428 7	Byers I I C
300	3	McCambridge, T.	433 4	Byers, J. J. C. Cleveland, C. R.
302	4	Mitchell, John	439 6	Carter W I
305	4	Weeks, J. L. Ames, William	443 3	Carter, W. J. Regan, John
307	4	Ames, William	448 1	Coughlin, Daniel
315	1	McEachern, Archie	450 3	Minskey I P
317	1	Drake, A. B.	450 3 451 3	Minskey, J. P. Flood, W. Gilman
319	1	Buie, Daniel	460 2	Ellery, Thomas A.
327	7	McFarlane, Daniel	460 2 461 2	Ellery, Thomas A. Little, Nelson
329	4	Peterson, J. D.	464 7	Nicholson, D.
336	7	Watts, Jas. B.	477 6	Maxon, F. C.
339	4	Mulholland, Matt.	479 6	Starke, F. C.
341	2	Fitzgerald, Michael	481 6	Iamieson William
344	7	Merrit, Geo. E.	486 6	Jamieson, William Stewart, John
348	2 7 9	·Stalker, Duncan	488 6	Anderson, Olief N.
350	2 7	O'Connor, Richard	496 6	Schwerman, Fred.
352	7	Williams, W. H.	498 6	Leisk, John
355	4	Williams, W. H. Morgan, Jas. W.	500 6	Leisk Henry
357	7	Westcott, J. W.	501 6	Leisk, Henry Doak, Jno. A.
358	4	Olson, Olof	503 6	Wright, Wm. E.

#### PENNANT NUMBERS 505 TO 799 INCLUSIVE.

Pen- I		NAME.	Pen- Lo		NAME.
nant.				No.	
505	6	Boyce, H. M.	636	7	Stoddard, Lewis
506	4	Hawgood, A. H.	641	2	Harper, Geo.
507	6	McSweeney, John	642	3	Cochrane, David
508	6	Vance, L. R.	651	7	Waltman, Jos.
509	6	Scott, W. B.	657	7	Thorburn, John
513	6	McCoy, John	666	7	Thorburn, John Holbrook, T. H.
515	6	McGregor, W. F.	671	7	Millen, Wm. F.
520	7	Lemay, Timen	678	9	Durand, Homer H.
526	Ġ	Lund, William	679	3	Yax, Jos. E.
528	7	Hutton, Jno. T.	693	7	Wilson, Geo. U.
532	7	Duncanson, D. J.	694	4	Peterson, C. A.
542	ģ	McDonald, Geo.	695	4	
543	3 3	Mediald, Geo.	697		Miller, Chas. D.
	õ	MacLean, Donald		4	Landfair, John A.
544	3	Page, Hiram C.	698	4	Bell, George A.
545	3	Kohnert, E. G.	700	4	Wheeler, Wm. P.
546	4	Sanders, Jos.	708	4	Rice, Frank
547	6	Otter, Thomas W.	709	6	Bruce, James
553	9	Harlow, Wm. J.	712	6	McGinn, James
556	2	Warwick, J. H.	714	6	Griffin, John L.
557	2	Laframboise, Jas.	716	6	Peterson, Peter
558	4	Rae, Frank C.	719	9	Peterson, Peter Tomlin, Wm. J.
560	2	Thorp, Wm. H.	731	7	Campau, W. H.
566	2 1	Shephard, A. M.	732	7	Mara. Tames
570	4	Anderson, Joseph	736	2	Mara, James Miner, F.
572	3	Hubbard, Chas H.	737	4	Atwood, Sam'l N.
576	3 2	Hubbard, Chas. H. Maitland, Henry	738	4	Cottrell, Geo. L.
578	7	McCullagh, Geo.	749	ŝ	Massey, John
579	7	Shaw, John C.	750	7	
586	7	Stewart, A. E.	751	7	Livingstone, W., Jr.
593	7		753	7	Lennon, Wm.
596	7	Huntoon, A. J.			McKay, Alex. J.
		Wilson, Chas. L.	755	7	McLarty, James
602	7	Innes, J. R.	760	4	Stone, Lewis W.
603	7	Lohr, Edward	761	4	Woodford, C. H.
612	7	Fox, Arthur J.	767	7	McIntosh, M. G.
613	9	Meikleham, Thos.	768	4	Peterson, Andrew
614	9	Bailey, Robt. N.	770	1	Graham, George
616	7	Tormey, Ed.	771	1	McMillan, Chas.
617	7	Tormey, Ed. Currie, Shepard A.	781	8	Miller, Alex. B.
624	4	Peterson, H.	782	8	Rice, Phillip
627	7	Hagan, Hugh J.	783	8	Ward, Julius A.
628	7	Eade, Alfred	786	8	Hagan, Wm.
629	7	Ferguson, Robt. E.	797	8	Carrier, David C.
631	7	Elliott, Lewis	798	4	Mitchell, Alfred
632	7	Spiffington, J. A.	799	8	Shaw, G. A.
	•	~pg.co., j. 11.	,00	-	D. 11.

Pen- nant.				Lodge t. No.	
801	2	Pierce, G. W.	973	3	Brion, James W.
804	2	Brown, C. T.	975	7	McFarlane, D.
810	4	Lalond, Anthony	978	6	Bennett, Henry
812	1	Miller, Hugh O.	980	10	Bennett, Henry Walsh, James A.
819	7	Young, J. P.	982	4	Benham, Wm. P.
821	1	Rowan, Murdock	983	4	Detlefs, Emil
822	2 9	Mosier, R. H.	986	3	Gallino, A. P.
826	9	Herrick, T. C.	987	7	Hutchins, F. G.
827	1	Cunningham, Jas.	988	4	McGarvey, Wm.
831	9	Gillespie, Isaac G.	992	3 2	Moore, J. F.
838	9	Kelly, David .	994	2	Manuel, Fred W.
843	9	Sage, Geo. V.	995	2	Budd, Melvin A.
844	9	Walker, Norman B.	996	2 3	Ackerman, J. C.
850	4	Slackford, W. G.	1001	4	Walder, R. J.
854	9	Ashley, Ed. G.	1003	• 4	Byrns, Ralph E.
856	9	McKinley, Jas.	1004	4	Hoag, Wm. S.
857	9	Skeldon, Jas. W.	1010	4	Laframboise, Jacob
861	9 2	Chambers, A. P.	1012	$ar{2}$	Cowles, Wm. J.
865	7	July, Edward F.	1013	7	Smith, A. C.
868	ġ	Lyons, Robert A.	1014	2	Johnston, Edward
875	3 7	McCallum, Henry	1016	ī	Green, John D.
880	4	McCoy, Geo. A.	1017	4	Hunt, Wm. J.
884	6	Kelly, Patrick	1018	3	Howard, Martin
891	ī	Madigan, Jas. A.	1020	4	Jollie, Richard
892	6	Christenson, Peter	1021	$ar{2}$	Bennett, Jas. S.
893	7	Hursley, Jay.	1026	2 4	Fox, Benson
899	3	Elliott, A. M.	1028	7	McLachlan, Archie
902	3 6	Robertson, Geo.	1029	7	Herbert, Fred.
910	7	Robertson, Geo. McLean, Wm.	1030	4	Ennes, C. M.
914	4	Carloss, W. S.	1032	6	Moody, Chas. E.
921	4	Steible, John	1035	4	Ingraham, F. E.
932	ã	Weimar, Fred T.	1038	4	Allen, Sam'l C.
941	3	McIntyre, Allan	1039	$\bar{4}$	Post, Jos. W.
947	9		1041	$\overline{4}$	Ferguson, Wm.
950	š	Brown, Geo. A. Decker, W. H.	1042	4	Holly, Wm.
952	4	Eldredge, H. C.	1043		Rand, Leroy A.
959	4	Moody, Wm. H.	1044	6	Williams Edward
960	4	Lampoh, Jos.	1045	ĭ	Williams, Edward Wilkins, W. W.
963	3	Shaw, W. W.	1047	i	Martin, Edward
965	4	Ward John	1050	1.	Thompson, Peter
966	1	Ward, John Wex, Peter	1051	6	Tower, John
967	7	Still, Hiram	1052	7	McGuire, Norman
971	2	Fleck, James A.	1054	7	Goodrow, Frank
972	7	McAlpin, John	1055	-	Fulian, Gains D.
312	1	McKipili, Jolin	1000	* .	i uliali, Gallis D.

Pen- nant.	Lodge No.	NAME.	Pen- nant.	Lodge No.	NAME.
1058	4	Willoughby, W. J.	1123	7	Maynes, Daniel A.
1059	$\bar{4}$	Driscoll, Jas. H.	1124	6	Wauwig, Jno. D.
1060	ī	Gibson, Tames R.	1125	· 6	Christenson, Anton
1061	7	Gibson, James R. Brady, Thos. J.	1126	9	Benson, Dan.
1065	7	McIntosh, John I.	1127	4	Dyble, Edw.
1066	7	McIntosh, John L. McAlpin, Wm.	1128	4	Owen, Jas. L.
1067	4	McGarry, John	1131	9	Jex, H. N.
1068	$\bar{4}$	Bouille, David	1132	7	West, Bert E.
1070	$\bar{4}$	Cody, F. B.	1133	6	Woods, John
1073	7	Mahon, A. T.	1134	4	Black, Wm. A.
1074	7	Mahon, A. J. Hoffman, Wm. H.	1135	$\overline{4}$	Craigie, Alex.
1075	7	Donaghue, E. J.	1136	$\bar{4}$	Hergenrother, J. A.
1076	7	Crosby, Wm. J.	1137	7	Balfour, C. C.
1077	7	Wilkinson, John	1140	1	Hansen, Andrew C.
1078	7	Chamberlin, F. D.	1141	$\hat{7}$	Forton, Frank S.
1079	ģ	Lockhart, D. O.	1143	$\dot{2}$	Rinn, Wesley
1080	7	McLachlan, D.	1147	9	Doville, D. F.
1081	7	Johnston, Alex.	1148	6	Olson, Samuel
1082	7	Johnston, Alex. Mallette, Paul A.	1150	2	Greening, Wm.
1083	6	Brownell, Stephen	1151	7	Wilkinson, F. A.
1084	7	Firby, Wm. T.	1153	ġ	Hamilton, W. D.
1085	7	Clark, Alex.	1154	1	Curran, David A.
1088		Sanders, Thos. H.	1155		Montgomery, J.
1090	4	Sanders, Thos. H. Beggs, Thos.		•	W.
1091	i	Howe, Alfred B.	1157	8	Taylor, James
1095	î	Duddleson, Jno. W.	1160	8	McDonald, John
1096	$\hat{4}$	Teare, F. S.	1161	7	McDonald, N.
1098		Ainsworth, Chas.	1163	7	Sayre, C. E.
1100	3	McAvoy, John	1167	ġ	Burnham, Geo.
1101	2	Burns, John	1169	ĭ	O'Day, Simon
1103	6	Ross, C. D.	1170	3	Minter, Thos. B.
1104	2	Sinclair, Jno. H.	1171	3	Reid, Robert, Jr.
1105	4	Reece, Geo. O.	1172	3	Christopher, S.
1106	$\bar{4}$	Heaton, Chas. H.	1175	7	Millen P I
1109	$ar{2}$	Neal, Jas. S.	1177	4	Millen, P. L. Burr, James L.
1111	6	Small, E. S.	1179	î	O'Neill, Patrick
1112	7	McCarthy, Daniel	1182	7	Parsons, H. H.
1114	i	Stevenson, Geo. C.	1183	7	
1115		Jevenson, Geo. C.	1184		Stevens, E. P.
	4	Jones, Jno. F.		4	Hinslea, Henry
1116	4	Allen, C. L.	1185	4	Parson, Frank
1117	7	Burke, Enos J.	1187	1	Hartman, John J.
1121	4	Woodward, Chas.D.	1188	1	Warwick, Henry
1122	7	Kearns, Joseph	1190	3	Godman, Jas. P.

Pen- nant.	Lodge No.	NAME.	Pen- l	Lodge No.	NAME.
1191	3	Jensen, K. A.	1269	3	Patterson, Wm.
1192	4	Moshier, B.	1276	8	Maxwell, Wm.
1193	7	Bertrand, Frank	1283	4	Robinson, A. R.
1194	7	Maddock, J. B.	1284	7	Rains, Ed. T.
1197	4	Hand, A. S.	1285	ż	Leith, Alex.
1198	8	Brown, Hector	1289	ğ	Dwelle, A. W.
1199	8	McCann, Samuel	1294	ì	Burns, John J.
1201	7	Parsons, Joseph	1295	4	Landfair, B. M.
1202	7	Parsons, Joseph Shafer, Avander H.	1299	ī	Galvin, M. J.
1203	7	Maddock, J. C.	1303	4	Sutherland, Wm. T.
1204	4	Hahn, Charles P.	1304	9	Harlow, Frank T.
1205	4	Blattner, Wm. H.	1307	4	Reid, Fred'k H.
1206	6	Larson, Peter	1308	3	Campau, Louis A.
1207	6	Thrall, Preston F.	1309	9	Cook, J. W.
1208	š	Jacobson, Jacob	1312	ĭ	Weinheimer, F. L.
1209	2	Neal, Wm. D.	1313	î	Secord, C. D.
1216	3	Traverse, James	1314	i	Grant, C. J.
1219	4	England, Rich. W.	1315	7	McGregor. Wilson
1224	4	McAlpine, Hugh	1319	3	McGregor, Wilson Anderson, Wm.
1226	8	Mattison, E. F.	1321	4	Anderson, Mathew
1227		Folsom, Frank C.	1323	ī	Wulke, John J.
1228	8	Shackett, Henry S.	1324	7	Harrow, W. G.
1229	8	Kinyon, S. D.	1328	8	Ames, Augustus
1233	7	Parsons, Dudley R.	1329	4	Peterson, Peter A.
1236	4	Bouille, Pierre	1330	4	Tohnston Ino M
1237	4	Kelly, Henry	1334	2	Johnston, Jno. M. Akers, E. C.
1240	$\overline{2}$	Kelly, James W.	1335	4	Willett, Luke
1241	2	Canartney, M.	1338	4	Byrns, Howard A.
1242	õ	Atwill, John	1344	6	
1243	8	Kuhn, John	1351	4	Preston, John R. Mahon, Walter M.
1244	7	Clifford, Alex.	1352	4	Leckie, Frederic
1246	9	Stalker, A. W.	1354	2	Stephens, Thos. J.
1247	6	Cook, John G.	1355	7	Christie, Charles
1249	6	Soleau, O. J.	1356	ż	Baker, Harris W.
1251	9	Doville, Egbert	1358	3	
1252	9	Cunningham, J. J.	1359	3	Crangle, John Higgie, J. F.
1254	2	Reed, Wm. A.	1360	6	Dailey, Michael
1255	4	Brooks, R. H.	1361	4	Faragher, William
1256	7	Quinlan, Wm.	1362	3	Sinclair, Cyrus H.
1257	8	Cottrell Inc F	1363	3	Elliott, Frank
1257	9	Cottrell, Jas. E. Lynn, Daniel R.	1365	3	
1260	9	Warner T R	1366	3	Buchanan, Duncan Beggs, David
1262	8	Warner, J. B. Broadbridge, A. T.	1368	4	
1266	9	Kirker, Fred.	1369	1	Anderson, Chas. A. Vrooman, Geo. H.
1200	y	Kliker, Freu.	1908	1	Vrooman, Geo. H.

Pen- nant	Lod No	).		- Lod	
1371	8	Van Gorder, Chas.	1447	7	Craig, John C.
1374	7	Callam, Alex. C.	1449	6	Maitre, Frank
1377	7	Robinson, Salem O.	1450	3	Jennings, J. P.
1381	3	Lamoreaux, Joseph	1451	3	Jones, Harry
1384	4	Bartel, A. E.	1453	3	McKay, W. J.
1385	4	White, A. E.	1454	4	Bailey, F. A.
1386	4	Ferguson, John A.	1456	3	Hansen, John F.
1387	4	Brand, August	1457	3	Fitch, Édward
1388	1	Klock, Everett	1462	4	McDonald, Wm.
1389	1	Fuller, C. E.	1463	7	Tyre, Theophilus J
1392	ī	Peterson, M. S.	1464	1	Finegan, Owen P.
1393	1	Clark, John C.	1465	7	Flaherty, Joseph
1394	4	Johnson, Martin	1466	7	Simpson, Fred J.
1395	4	Nordahl, Arnold	1467	9	Dunseith, John
1397	7	Baker, Burton S.	1469	3	Tisdale, Geo. B.
1398	7	Kotcher, Albert I.	1471	3	Wilson, Chas.H.,Jr
1400	ż	Hough, Thos. M.	1472	3	Saph, Jay P.
1402	8	Markle, Stanton	1473	7	May, Anthony T.
1403	4	Goodwin, Jas. F.	1475	4	Phillips, Geo. L.
1404	4	Watson, F. C.	1476	6	Sniffin, Berlin N.
1408	7	Wilson, Wm.	1478	2	Cotton, A. J.
1410	. 7	Talbot, Geo. E.	1479	11	Jackson, Rich. C
1411	7	Anderholt I. P	1480	4	Smith, Philip H.
1412	i	Anderholt, L. P. Stevenson, Wm. H.	1481	11	Johnson, Wm. H
1413	ī	Saunders, Jas. M.	1482	4	Packer, Wm. H.
1414	6	Bronson, Chas. T.	1483	4	Ellis, Frank S.
1415	4	MacLachlan, A. H.	1484	6	Williams, Wm. A.
1417	7	Forbes, Alexander	1485	6	Brownell, E. H.
1421	8	Hill, Fred C.	1487	9	Lyons, Jas. B.
1423	4		1489	4	
1424	4	Banker, Geo. H. Light, F. W.	1490		Stewart, Walter G
1425	3	Edwards, M. L.	1490	8 4	Lyons, Stephen A
1427	3	Pough Ches	1491	4	Williams, Archie M
1427		Bough, Chas.		4	Dixon, Alfred
1433	4 7	Dobson, J. C.	1493		Gould, Francis E.
1434	7	MacLean, Wm. J.	1494	4	Ehrhart, John W
		Recor, Geo. F.	1495	2	Cassin, Jas.
1435	7	Rattray, Chas.	1497	1	Herbert, James G.
1437	3	Kohnert, J. E. Colbert, Thos.	1498	3	Andersen, Sigverd
1438	4	Colbert, I nos.	1499	4	Benham, Geo. E.
1442	4	Keller, Alva B.	1500	4	Thompson, Robt.
1443	7	Iler, Walter C.	1501	4	Vanslet, Abram
1444	3	Olsen, John K.	1502	2	Hendricks, Edw.
1445	3	Cullnan, John	1503	2	Bradshaw, John L.
1446	4	Fitch, Edward	1504	2	McLean, J. C.

		Lodge No.	name.	Pen- L		NAME.
15		1	Goodell, F. A.	1569	7	Archer, Arthur A.
15		î	Clarke, W. E.	1572	4	Moore, Frank
15		Ĝ.	Anderson, Gus. E.	1573	i	Boggan, Moses
15		11	Warner Walt B.	1574	3	Strahan, Louis F.
15		4	Warner, Walt. B. Pringle, Wm. J.	1575	3	Young, Peter
15		1	Pringle, Will. J.	1576	9	Fox, J. C.
	22		Dunn, Thos.	1577	4	Burt, George G.
		4	Randall, A. E.	1578	ĭ	Kelley, Andrew
15		4	Culp, Hamilton	1580	4	Meeker S. E.
15		7	Pickell, E. S.	1581	ĭ	
15		6	Bennett, Geo. J.	1582	7	Vaughn, John F.
15		7	Gordon, D. G.	1584	í	Merckel, C. G.
15		6	Hendriksen, Otto	1585	7	Buckley, J.
15		4	Pringle, Robt. C.	1586	<b>'</b> 2	Gatfield, E. D.
15		4	Ennes, Everett S.	1587	2 4	West, Fred A.
15		3	McGannon, Wm. P.			Millikin, Wm.
15		7	Brown, Nelson	1588	4	Grashaw, Walter Burns, T. C.
15	32	6	Jones, Warren C.	1589	4	Burns, T. C.
15	33	4	wood, J. S.	1590	2	Randall, Frank
15		8	Dupuy, Frederic A.	1591	Z	Thompson, W. F.
15		3	Gunderson, Gustav	1592	7	Bain, A. J.
15		3	Evans, Robt. T.	1593	4	Wilman, Dan.
15		4	Murdock, John A.	1594	4	Maloney, Forest
15	39	6	Dority, Frank A.	1595	4	Girardin, W. L.
15	40	7	Dority, Frank A. Carr, Whitney	1596	4	Gustafson, Peter
15		7	Pocock, Henry A.	1597	7	Wilkinson, Chas.
15	12	4	Buchanan, James	1599	6	Coon, Geo.
15	15	4	Symes, George A.	1600	6	Girardin, D. C.
15	17	7	Hosner, V. L.	1601	7 7	Ross, James
154	18	7	Webster, Chas. T.	1602	7	Holt, James G.
154	19	4	McEwen.Henry W.	1603	3	Johnson, Carl
15	50	4	Simmons, Thos. G.	1604	3	Johnson, Martin
15	52	6	Garrity, Thomas	1605	3	Bright, W. T.
15	63	4	Holdridge, George	1606	8	Kendall, Geo. B.
15		ī	Doohen, John B.	1607	3	Peterson, T. J.
15		$ar{2}$	Hughes, Henry S.	1608	3 2	Evans, John
15		6	Johnson, John A.	1609		Carlisle, Theo. J. Barclay, John
15		ď.	McGarry, George	1610	1	Barclay, John
15		9	Lohr, John M.	1611	2	Meno, Jos. E.
156		6	McShane, Daniel W.	1612	2 2 2 7	Hanson, John T.
150		ĭ	Milne, John	1613	2	Scott, G. H.
150		4	Conkey, Charles M.	1614	7	Jarvis, Fred L.
150		6	DuClos, Napoleon	1615	7	Mahon, M. H.
150		ĭ	Whiteside, John A.	1616	· 8	McDonald, G. W.
150		$\hat{3}$	Green, Arnold	1617	3	Lang, Julius
100	,,,	U	Green, zimoru	-04,	·	, , ,

Pen- L	odge	NAME.	Pen- Lonant.		NAME.
1619	3	McQueen, W. S.	1668	2	Ditzel, Henry E.
1620	4	Ames, G. W.	1669	ī	Watson, C. W.
1621	4	Walper, Henry	1670	ī	Drury, John E.
1622	4	Moore, S. S.	1671	7	Ashley, W. A.
1623	7	Norvell, Walker	1672	7	Doner, James
1625	7	Kennedy, James	1673	7	Brown, Claud D.
1628	′2	Woerpel, H.	1674	4	Ney, C. R.
1629	2	Fowler, Thomas	1675	4	Mooney, Wm.
1630	7 7 3 2 7	Ellis, Thos. G.	1676		Calling N M
1631	7	McCarthy, John		9	Sullivan, N. M.
	7 7		1677	2	Stevenson, Wm.
1632		Barnes, Chas. E.	1678	6	Lee, Iver M.
1633	4	D'Clute, John C.	1679	4.	Fowlie, Andrew
1634	4	D'Clute, Hugh	1680	3	Taylor, Edward
1635	6	Redner, Elmer E.	1681	3	Plummer, Wm.
1636	4	Harboldt, John	1682	3 '	McCauley, C.
1637	4	Dawley, W. W.	1683	7 2	Dorry, Benj. B.
1638	3	Shea, Jos. A.	1684	2	Geel, Guy G.
1639	3	Willett, C. W.	1685	4	Massey, S. B.
1640	4	McNeill, John	1686	3	Hagensen, H. A.
1641	4	Anderson, P. A.	1687	1	Koch, Robert.
1642	2 7	Henry, Ed.	1688	7	Leonard, Roy M.
1643	7	Yates, Wm. H.	1689	7	Autterson, Chas.
1644	7	Ludington, Lewis	1690	6	Kearns, Chas. J.
1646	1	Brooks, W. M.	1691	6	Brownell, Jos. A.
1647	1	Weinheimar, F.W.	1692	4	Stanley, Edward.
1648	1	Shaw, Edward L.	1693	3	Olsen, Gust.
1649	1	Weinheimer, E. J.	1694	7	Morrison, J. N.
1650	1	Kerr, Harry	1695	1	Miller, Chas. F.
1651	1	Brooks, Wm. H.	1696	6	Clausson, Gus. T.
1652	1	McDonald, J. A.	1697	4	Ott, Frank
1653	1	Gebhard, F. R.	1698	3	Meyer, Gust.
1654	1	Stevenson, Thos.	1699	3	Hanson, Andrew
1655	1	Lowe, John H.	1700	3	Anderson, Alex.
1656	2	Montgomery, W.L	1,00	·	Α.
1657	2 2 2 4	Pardy, Robt. H.	1701	3	Atkinson, Gus. E.
1658	2	Chamberlin, W. J.	1702	4	Moore, Wm. E.
1659	4	Starkey, E. J.		-	House Edge
1660	ż	Mahon, J. A.	1703	1	Hough, Edgar
1661	7 2	Knapp, R. H.	1704	6	Mason, Chas. D.
1662	ī		_ 1 <i>7</i> 05	1	Acton, Joseph
1663	î	McLeod Donald	1706	3	Trodahl, H. H.
1664	2	McLeod, Donald Crooker, D. M.	1707	7	Hormig, Wm. F.
1667	2	Pierce, Wm. L.	1708	3	Gutch, Paul
100/	4	Tierce, win. D.		•	

Pen- Lodg		Pen- Lodge nant. No.	
1709 4	Talbot, A. J.	1750 10	LeBeau, Sidney
1710 4	Robinson, Jno. W.	1751 10	Shay, E. B.
1711 4	Reid, Wm. C.	1752 10	Goodrich, Jno. W.
1712 4	Storey, Wm. J.	1753 1	O'Hagan, Hugh
1712 4		1754 1	Unagan, nugn
	Morton, Edw. R.		Hanley, Chas. C.
1714 4	Birmingham, Jas.	1755 1	Rolseng, Iver
1715 8	Booth, Wm. H.	1756 1	Holinberg, Henry
1716 1	Bennett, Chas. D.	1757 1	McLaren, Benj. C.
1717 1	Crawford, Geo. B.	1758 1	Patterson, Robt.
1718 4	Detlefs, Fred		C.
1719 1	Donahue, Joseph	1759 1	Hayes, W. J.
1720 4	Olsen, Oscor	1760 1	Hefferman, T. N.
1721 8	Hetherington, N. M.	1761 1	McMaugh, Archie
1722 3	Weaver, Geo. W.	1762 1	Wilkinson, Robt.
1723 1	Gibson, James		В.
1724 3	Morgan, M. F.	1763 6	Mackey, Melvin
1725 7	McDonald, Jno. A.	1764 6	Peterson, Frank J.
1726 1	O'Hagan, John	1765 6	Larson, Nils Lud-
1727 1	Broderick, Benj.		rik
1728 1	Hefferman, Jas.	1766 2	Doner, Thos. F.
	Bell, Joseph C.	1767 2	Johnston, Martin
1730 2	Crockett, Tyler I	1768 2	Brown, Chas. D.
1729 8 1730 2 1731 2	Crockett, Tyler J. Comins, Edw. T.	1769 11	Stewart, Mil'rd M.
1732 2	Sawyer, Edw. L.	1770 11	Stewart, Jas. P.
1733 10	Anderson, S. V.	1771 11	Galton, F. D.
1734 10	Leonard, M. A.	1772 11	Kendall, Douglas
1735 10	Handley, Jno. H.	1773 11	Heminger, F. R.
1736 10	Murphy, H. A.	1774 11	Little, Nelson T.
1737 10	Nelson, Chas. O.	1775 11	McComb, James
1738 10	Powers, John J.	1776 11	Kenworthy, Sam'l
1739 10	Dunn, Chas. A.	1777 .11	Du Beau Goo
1740 10	Nelson, A. C.	1778 11	DuBeau, Geo. Moore, Syl. D.
1741 10	Russell, Henry	1779 11	Grant Theo
1742 10	Murphy, D. O.	1780 11	Grant, Theo.
1742 10			Smith, Sidney H.
1743 10	Stitt, Wm. J.	1781 11	Mitchell, Alvin B.
	Doyle, Wm. J.	1782 11	Stager, Peter
1745 10	Smith, John J.	1783 11	Ames, Wm. J.
1746 10	Kinch, Geo. H.	1784 3	Simons, John
1747 10	Bell, Thos. J.	1785 7	Klingler, Geo. M.
1748 10	Maltby, Wm. G.	1786 <b>7</b>	Hackett, Thos. H.
1749 10	Woods, Wm, V.	1787 7	DeNike, Lee C.

Pen- L		NAME.	Pen- nant.	Lodge No.	NAME.
1788	4	Bourassa, Joseph	1828	7	Ernest, Chas. W.
1789	.4	Logan, John A.	1829		Nesbitt, W. Kerr
1790	1	Massey, Ches. A.	1830	7	Byers, I. Clarke
1791		Marcero, Charles	1831	7	Kariger, Fred'k
1792	7	Peltier, Robt D.	1832	. 7	Honner, G. W.
1793	2	Johnston, James	1833	6	McCauley, Chas.
1794	2	Bennett, Edw. H.	1834	2	Hayward, Geo.
1795	4	Thompson, Merv.	1835	2	Lowes, Joseph H.
1796	ż	Moran Jos H	1836	2 2	Millard, Wm. L.
1797	7	Moran, Jos. H. Judson, H. W.	1837	8	Williamson, P. L.
1798	10	Gibbons, Wm.	1838	8	Fehmer, Otto
1799	10	McDonald, John	1839	8	Graves, Gust. W.
1800	10	Loveless, Fred	1840	8	Nesbitt, Chas. J.
1801	3	MacMillan, John	1841	8	Young, Alex.
1802	4	Bernard Edw F.	1842	8	Recor, Robt. Jas.
1803	4	Bernard, Edw. F. Durney, John	1843	4	Ritchie, W. S.
1804	4	Nelson, Olaf	1844	i	Clarke, Jas. M.
1805	4	Randolph, Geo.	1845	ī	Chilson, W. E.
1806	4	Mulholland, Chas.	1846	1	Bennett, Dan'l J.
1807	4	Perew, Frank D.	1847	8	Ingram, John H.
1808	8		1848	8	Recor, Edgar O.
1809	1	Ames, Claude M. Lucas, William	1849	8	Young, Wm. T.
1810	1	McClinton, W. D.	1850	8	Rattray, Wm. P.
1811	1	Heaney, John C.	1851	7	Huntoon, Fred A.
1812	1	Heaney, John C. Davis, Henry J.	1852	7	Huntoon, Fred A. Jagenow, Wm.
1813	1	Whitney, Walt. M.	1853	7	McCormick, Neil
1814	1	McLeod, Dugald	1854	7	McKay, Daniel
1815	7	Fox, Charles	1855	7	Stuart, Thos. J.
1816	4	Allen, Merton G.	1856	2	Comins, Alon. B.
1817	2	Montgomery, Jno.	1857	3	McKenzie, Ken.
		Α.	1858	3	Post, Samuel G.
1818	6	Oakley, James	1859	6	Dixon, Edw. F.
1819	6	Carus, Edward	1860	6	Olson, Samuel
1820	8	Hollingshead, Jno.	1861	6	Cavanaugh, J. F.
1821	4	Moore, Geo. W.	1862	10	Baldwin, Fred
1822	4	Weitzman, Jr.,	1863	10	Kiah, Jr., David A.
		Chas. Alex.	1864	10	Dubrule, Eug. A.
1823	4	Lyons, Harry S.	1865	4	Noble, John
1824	4	Hill, Edwin A.	1866	4	McLeod, D. W.
1825	1	Warwick, Ern. M.	1867	1	Abel, Wm.
1826	7	Pearson, John J.	1868	1	Longley, Geo. R.
1827	7	Burns, Geo. C.	1869	1	Ahern, Stephen P.

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1871	6	Kilty, Peter	1882	7	Place, John
1872	6	Stufflebeam, John	1883	7	Grant, John H.
		Α.	1884	6	Hays, John C.
1873	6	McIsaac, Neil	1885	6	Evanson, Arnold
1874	6	Crawford, John G.	1886	3	Christopher, Sam
1875	6	Martin, Michael F.	1887	4	Dobson, J. C.
1876	6	Brown, Walter	1888	4	Ogden, Benj. F.
1877	6	Doyle, John J.	1889	4	Stern, Wm. H.
1878	6	Hoxie, A. K.	1890	10	Casey, Henry
1879	6	LaFleur, Wm. H.	1891	10	Delaney, George J.
1880	7	Williscroft, John			· · · · · · · · · · · · · · · · · · ·
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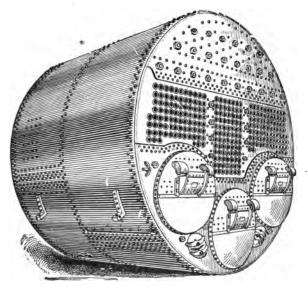
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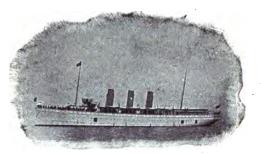
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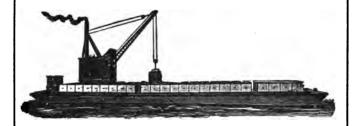
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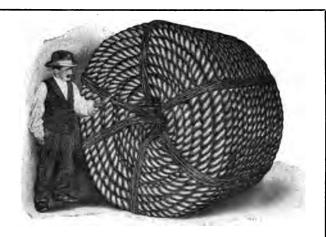
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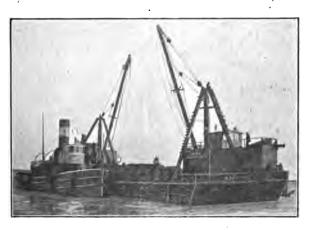
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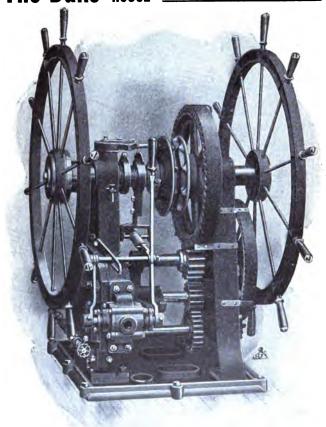


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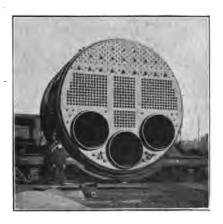
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## Steam and Sall Vessels of the Great Lakes American

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## CORRECTED TO APRIL 1, 1909

Str. is the general indication for steam vessels not otherwise specified. t indicates vessel is built of iron or steel. Sty indicates steam vacht.

Sch. indicates all sail vessels and barges.

Stp indicates steam passenger.

.Vas. indicates naphtha screw. Nyt. indicates naphtha yacht F. B. indicates fire boat.

V/y. Indicates yawl yacht. .Spd. steam pile driver.

H. B. house boat.

Grey. indicates gasoline schooner yacht. Gap. invicates gasoline passenger. Oge indicates dredge. indicates steam canal boat. Scy, indicates schooner yacht. indicates gasoline yacht. Sly indicates stoop yacht, indicates canal boat. Sch indicates steam can: C. F indicates car ferry. Gas indicates gasoline. Lch. indicates launch See indicates barge. Sew, incl. atres ow. Lir. indicates lighter. Ž

NAME AND ADDRESS OF OWNER OR MANAGER. V. Bulls Keel Beam Gross Net Tonnage Tonnage VESSEL. CLASS.

Great Lakes Towing Co., Cleveland, O. W. H. Hackett, Ogdensburg, N. Y. Hutchinson & Co., Cleveland, O. Mrs. Jennie Long, Buffalo, N. Y. R. Bell Fish Co., Fort Clinton, O. Great Lakes Towing Co., Clevels 1889 1892 896 65×16 212×35 288×44

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L. B.....56

Abbott, H. Aberdeen Abyssinia

Tug Sch

Acme .....

Sch Tug Ltr

......

Active Active

1891 94×17

54×13 139×26

Ö

Cleveland,

W. H. Feeney, Cleveland, O. Great Lakes Towing Co., Cleveland, O. Adams Transportation Co., Detroit, Mich. Alex. M. Lemke, Saginaw, Mich. Abandoned. 1881 1902 1890 33x 9 62x16 370×50 48×10 Thomas....3784 υ υ Ada W.... ‡Adams, Adams, Siy Tug Tug

1866 W. F. Horn, Chamber of Commerce Bldg.,	1899 M. B. McMillan, Detroit, Mich. 1889 M. A. Bradley, Cleveland, O. 1907 Lackawanna Steamship Co., Buffalo, N. Y.	1871	1906 Mels Royck, Frankfort, Mich.	1907	1882 1886	1871		1893 Albert L. Stephens, Grosse Pointe Farms, Mich. 1880 D. A. Cady, Ormo, Wis.		1901 Mitchell & Co., Cleveland, O. 1896 O. P. Letchworth, Buffalo, N. Y.	1878 George B. Taylor, Erie, Pa. 1907 I. J. McHrath, Shelby, Mich.	•			1879	1999	<b>8</b>		1898
190x27	423x51 202x34 420x52	139×28	26x 8	48x12	89×12 70×16	212×32 136×26	40x12	$100 \times 16$ $96 \times 29$	29×10	416x50 68x12	185x34 39x11	123x25	49×13	71x1750x 9	49×12	58×11 66×17	127×33	95×18 73×14	66×16
375	3547 869 3605	348	,9;	15	8 8	$\frac{1147}{269}$	6	<b>경</b> 뜻		-	966		11			12			
Str Adiramled 565	Str ‡Admiral4651 Sch Adriatic915 Str ‡Adriatic4945	, es	Agnes	Aguste	•	Albany	Albany		Albian	#Albright, John . Alcina		Aldrich, Wm				Stp Alexander 18 Str Alfred W 56	ah	John A	

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# American Steam and Sall Vessels of the Great Lakes

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### CORRECTED TO APRIL 1, 1909

Str. is the general indication for steam vessels not otherwise specified. ‡ indicates vessel is built of fron or steel.

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St indicates steam passenger. F. B. indicates fire boat.

Nyl. indicates naphtha yacht

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Viy. indicates yawl yacht.

Sod steam nile driver.

N Spd. steam pile driver. H. B. house boat.

Geg. indicates gasoline schooner yacht.
Seg. indicates schooner yacht.
Seg. indicates steam canal boat.
C. F indicates steam canal boat.
C. F indicates car ferry.
Seg. indicates car ferry.
Sy indicates barge.
Seg. indicates barge.
Seg. indicates barge.
Seg. indicates barge.
Seg. indicates pasoline.
Gay indicates gasoline,
Gay indicates gasoline passenger.
Gap indicates gasoline passenger.
Let indicates flexive.
Let indicates flexive.

NAME AND ADDRESS OF OWNER OR MANAGER.	
Vear Built	1
Keel Beam	
Net Tonnage	
Gross	
VESEL.	
CLASS.	

1866 W. F. Horn, Chamber of Commerce Bldg., Chicago, Ill. Formerly City of Fremont.	1899 1889 1907	1888	1885 1885 1885 1885 1885 1885			1901 Mitchell & Co., Cleveland, O. 1896 O. P. Letchworth, Buffalo, N. Y. 1878 George B. Taylor, Erie, Pa. 1907 I. L. McHrath, Shelby, Mich.	1856		1899 1905 1881 1880 1897 1898
190x27	423x51 202x34 420x52	26x 8 26x 8	149x30 48x12 89x12 70x16	212x32 136x26 40x12	100×16 96×29 29×10	416×50 68×12 185×34 39×11	123×25	49×13 71×17 50× 9 49×12	58x11 66x17 127x33 95x18 73x14 66x16
375	3547 869 3605	67.9	272 115 18 18	1147 269 9		$\frac{3298}{27}$ $\frac{27}{12}$			359 359 63 18 18 36
Str Adiramled 565		Agnes	Bge Agnes 3/0 Str Aguste 23 Str Aida 37 Scr. Aida 37	Alaska 1	Albatross Albatross	Str ‡Albright, John J4805 Sty Alcina 34 Str Alcona 952 Gas Aldebelle 18	H	1 ug Alert 23 Tug ‡Alert 42 Str Alert 10 Sch Alert 18	Stp Alexander 18 Str Alfred W 56 Str Algomah 486 Str Algona 92 Str Aliber, John A 32 Scy Alice 40

# AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES-Continued.

CLASS.	VERSEL.	Gross	Gross Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch	Str Alice Sch Alice Str Alice C. Sty Alice R. Sch Allegheny Str Allendale Tug Alpha Tug Alpha Tug Alpha Tug Alpha Tug Alpha	528 24 4 1 1 2 2 2 3 3 4 4 1 2 3 2 3 3 4 4 1 3 3 3 4 3 3 4 3 3 3 4 3 4 3	2212 2212 2212 2212 2212 2212 2212 221	63×14 137×30 137×30 137×30 137×31 187×33 187×33 187×11 56×16 56×16 173×32 173×3	1891 1901 1905 1905 1873 1873 1873 1890 1890 1888 1883 1883 1883 1883	Chas. Roe, Harbor Springs, Mich. Charles W. Allen, Kenosha, Wis. John Coffey, Manistique, Mich. W. A. Sawyer, Clayton, N. Y. Allegheny Transportation Co., Bay City, Mich. Bennett Schnorback Co., Muskegon, Mich. Chas. S. Hebard, Pequaming, Mich. Chas. S. Hebard, Pay City, Mich. E. C. Fitzgerald. Cane Vincent, N. Y. E. C. Fitzgerald. Cane Vincent, N. Y. Alton Ripley, Oshkosh, Wis. Alton Ripley, Oshkosh, Wis. Alton Ripley, Oshkosh, Wis. Great Lakes Towing Co., Cleveland, O. Great Lakes Towing Co., Cleveland, O. Chas. Simono, Two Rivers, Wis.
Str. 1 Tug. H. B. Sch. + Tug. Tug. Tug. Str. + Tug. H. B. Str. + Tug. + Tug. Str. + Tug. + Tug. Str. + Tug.	70-E	25 2419 2519 3599 3599 2228 2271 123 423 423 423 423 423 423 423 423 423 4	0 0	37x 9 51x12 324x42 73x18 95x16 876x46 295x44 274x42 874x42 874x42 87x42 114x31 104x31 104x24 44x11		

<ul> <li>2 Nau Tug Line, Green Bay, Wis.</li> <li>6 Acme Steamship Co., Duluth, Minn.</li> <li>5 Frederick Driscoll, Vermilion, O.</li> <li>3 John C. Jessen, Detroit Harbor, Wis.</li> <li>3 A. E. Francis, Alexandria Bay, N. Y.</li> <li>2 Alice Coffey, Manistique, Mich.</li> <li>2 Grand Island Steamship Co., Grand Island, Mich.</li> </ul>	92 D. W. Mills, 5 Carter st., Cleveland. 85 A. Booth & Co., Chicago, III. 78 J. Hewlett, Escanaba, Mich. 77 Henry Steinbrenner, Cleveland, O. 86 Chicago Lighterage Co., Chicago, III. 89 Pr. Isle T. Co. (Cleve. Cliffs), Cleveland, O. 80 William Dunn, Cedarville, Mich. 92 A. C. O'Beck, Grand Haven, Mich. 93 M. Hav. Oshkosh. Wis.	2 Ann Arbor R. R. & S. S. Line, Toledo, O. 2 Ann Arbor R. R. & S. S. Line, Toledo, O. 3 Ann Arbor R. R. & S. S. Line, Toledo, O. 5 Ann Arbor R. R. & S. S. Line, Toledo, O. 9 Great Lakes Towing Co., Cleveland, O. 4 John B. Brewman, Toledo, O. 5 W. C. Grisdall, Bay City, Mich. 5 C. H. Muhlenberg, Jr., Sheboygan, Wis. 1 Mrs. C. McG. Koch, Sandusky, O.	C. F. Mischler, Cleveland, O. J. Elizabeth Buhl, Detroit, Mich. Walter Kitchen, Omro, Wis. Richard E. Smick. Waukegan, Ill. Lost. Frank Emmons, Detroit, Mich. J. C. Gilchrist, Cleveland, O. Spencer Kellogg, Buffalo, N. Y. Mizel & Brownell, New York City.
1882 N 1906 A 1905 F 1873 J 1903 A 1892 A 1892 C	1892 I 1885 A 1878 J 1907 H 1896 C 1899 P 1892 A 1892 A 1892 S 1895 S		1900 C 1904 J 1904 J 1879 R 1897 J 1903 N
160x29 532x56 61x15 45x12 53x 9 65x16 266x38	193x37 75x15 43x15 552x56 68x17 423x51 54x12 62x14 80x19	260×53 264×53 258×52 259×52 75×20 80×18 155×27 54×13	57x14 117x17 45x 8 45x12 43x 9 366x44 57x 8 53x13
347 4422 21 10 8 34 1256	728 15 15 15 36 36 3538 12 12	563 572 996 1082 48 37 29 10	Ć.
Tug Ames, J. C.       537       34         Str ‡Ames, Ward       5750       44;         Str Ames, Wm. D       30       2         Gas Amiot, Lilly       14       1         Nyt Amoreta       11       31         Str Anabel       47       35         Str Andaste       1574       126	Sch Anderson, Alex 738 Str Anderson, F. R 30 Sch Anderson, Jane 16 Str ‡Andrews, M 7014 Tug Andy 53 Tug Angeline 4644 Str †Angeline 25 Str Anna M. 92	C. F. Ann Arbor, No.1.1127 S. C. F. Ann Arbor, No.2.1144 Str ‡Ann Arbor, No.3.11677 Str ‡Ann Arbor No. 4 1884 Tug Annie 78 Str Annie D. 20 Str Annie Laura 244	Str         Annue         K           Sty         Anona         146           Gas         Anona         9           Str         Anspach         15           Gas         Antelope         10           Sch         Antrim         3200           Sty         Apache         21           Gas         Apache         16

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# American Steam and Sall Vessels of the Great Lakes

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### CORRECTED TO APRIL 1, 1909

Str. is the general indication for steam vessels not otherwise specified. tindicates vessel is built of iron or steel. Sty indicates steam vacht.

Sch. indicates all sail vessels and barges. Stp indicates steam passenger.

Nas. indicates naphtha screw. Nyt. indicates naphtha yacht Vly. indicates yawl yacht. F. B. indicates fire boat.

Sød. steam pile driver. H. B. house boat.

Gscy. indicates gasoline schooner yacht. Gap. invicates gasoline passenger. Scb indicates steam canal boat. Scy. indicates schooner yacht. Gyt indicates gasoline yacht. Sly indicates stoop yacht.

Bge indicates barge.

Scw. incl. ates s ow. C. F indicates car ferry. Gas indicates gasoline. Dge indicates dredge.
Liv indicates lighter.
Loh indicates launch.

MAXAGE	
OWNER OR	
D Appliess or	
NAME AND A	
Vear Built	-
Keel	
Net	
Gross	
VESSEL.	
CLASS.	

			288x44 1896 Hutchinson & Co., Cleveland, O.				Abandoned.	33x 9	$62 \times 16$	$370 \times 50$	48x10 1890 Alex. M. Lemke, Saginaw, Mich.
	87	993	1916	103	12	318		'n	8	3187	9
<	Tug Abbott, H. B 56	•	Sch Abyssinia2037	•	:	Ltr Active 335		Ada W 5	Adams, A. C 41	3784	Adele 9

# AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES-Continued.

	CLABS.	VESBEL.	Gross	Gross Net Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
	Sch	Alice Alice	307	19 291	63×14 137×30 63×18	1891 1881	
	Sty	Alice R	: :	₹₩.	53x15	1905	W. A. Sawyer, Clayton, N. Y.
	Str	Allendale	58 50 50	88	18/x33 66x16	18/3 1899	Allegneny transportation Co., bay City, Mich. Bennett Schnorback Co., Muskegon, Mich.
	Str	Alliance	 14 24	12	57×11 38×12	1878 1904	Chas. S. Hebard, Pequaming, Mich.
	Gas Cl.:	Allie B		ထင္	44×11	1903	Robt. Bentell, W. Bay City, Mich.
	Sch		528	202	173×32	1888	L. P. Graves, Buffalo, N. Y.
8	Sty	Aloha	18	25	47x 8	1893	Alton Ripley, Oshkosh, Wis.
38	Tug	tAlpha	 &	₽₩	57x15	1882	
	Tug	Alphard	ଞ୍ଚ ::	21	55×15	1898	
	Str Gas	Altha Althea	25°	°2	3/x 9 51x12	1907	
	Str	Str ‡Alva	2419	2000	324×42	1893	
	Ė	۸1 ت	6	;	01-64	1000	cago, III.
	H. E	H. B. Amaryllis	٠:	‡ <del>2</del>	95x16	1896	Great Lakes 10wing Co., Cieveland, O. Emily M. Cox, Alexandria Bay, N. Y.
	Sch	Sch ‡Amazon	3599	3331	376×46	1897	James Corrigan, Cleveland, O.
	Str	Amazonas	2171	1748	295x44 274x42	1889	James Davidson, W. Bay City, Mich. Wisconsin Transportation Co., Shebovgan, Wis.
	Tug	‡America	123	83	80x21	1897	Great Lakes Towing Co., Cleveland, O.
	Tug	America	42	57	64×15	1894	Great Lakes Towing Co., Cleveland, O.
	Sta	Stp ‡America	681	478°	164×31	1898	38 A. Booth & Co., Tribune Bldg, Chicago, III.
	Stp. Tug Gas	#Americana American Eagle American Eagle	110	ž2~	203x45 104x24 44x11	8 8 8 8 8 8 8	Lake Erie Excursion Co., Buffalo, N. Y. L. S. Sullivan, Toledo, O. (Burned). Phil Kezel, Chicago, III.

Island,	O.	.do. 0. 0. Wis. Lost.
Nau Tug Line, Green Bay, Wis. Acme Steamship Co., Duluth, Minn. Frederick Driscoll, Vermilion, O. John C. Jessen, Detroit Harbor, Wis. A. E. Francis, Alexandria Bay, N. Y. Alice Coffey, Manistique, Mich. Grand Island Steamship Co., Grand Island	D. W. Mills, 5 Carter st., Cleveland. A. Booth & Co., Chicago, III. J. Hewlett, Escanaba, Mich. Henry Steinbrenner, Cleveland, O. Chicago Lighterage Co., Chicago, III. Pr. Isle T. Co. (Cleve. Cliffs), Cleveland, William Dunn, Cedarville, Mich. A. O'Beck, Grand Haven, Mich. S. M. Hav, Oshkosh, Wis.	S. M. Hay, Osnkosh, Wis. Ann Arbor R. R. & S. S. Line, Toledo, Ann Arbor R. R. & S. S. Line, Toledo, Ann Arbor R. R. & S. S. Line, Toledo, Ann Arbor R. R. & S. S. Line, Toledo, Ann Arbor R. R. & S. S. Line, Toledo, Ann Arbor R. R. & S. S. Line, Toledo, O. John B. Brevman, Toledo, O. Great Lakes Towing Co., Cleveland, O. John B. Brevman, Toledo, O. C. Grisdall, Bay City, Mich. J. C. H. Muhlenberg, Jr., Sheboygan, Mrs. C. McG. Koch, Sandusky, O. C. F. Mischler, Cleveland, O. J. Elizabeth Buhl, Detroit, Mich. Walter Kitchen, Omro, Wis. Wichard E. Smick, Waukegan, III. Frank Emmons, Detroit, Mich. J. C. Gilchrist, Cleveland, O. Spencer Kellogg, Buffalo, N. Y. Mizel & Brownell, New York City.
1882 1906 1905 1873 1892 1892	1892 1885 1878 1907 1899 1880 1892 1892	1892 1893 1898 1906 1906 1906 1907 1907 1907 1903 1903
160×29 532×56 61×15 45×12 53× 9 65×16 65×16	193x37 75x15 43x15 552x56 68x17 423x51 54x12 62x14 62x14 80x19	260×53 264×53 258×52 259×52 75×20 80×18 155×21 54×13 133×24 17×17 45× 8 45× 12 43× 9 45× 8 45× 8 45× 12 43× 9 45× 8 45× 8 8 8 45× 8 45× 8 45× 8 8 8 45× 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
347 4422 21 10 8 8 34 1256	728 15 15 15 36 36 35 38 35 38 12 12	2966 1082 1082 1082 1082 8 8 8 8 8 8 8 6 2 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
‡ Ames, J. C.       537         ‡ Ames, Ward       5750         Ames, Wm. D.       30         s Amiot, Lilly       14         Amoreta       11         Anabel       47         ‡Andaste       1574	Anderson, Alex. 738 Anderson, F. R. 30 Anderson, Jane. 16 Andrews, M 7014 Andy 53 Angeline 4644 Angler 18 Anna M. 92	Anna Ann A Ann A Annie Annie Annie Annie Anona Anona Anona Anona Anona Anona Anona Anona
Tug Str Gas Nyt Str	Sch Sch Str Tug Str 1 Tug Str 3 Str 3	Str Str Ting Str First Str First Str First Str First Str First Str Str Str Str Str Str Str Str Str St

FROM THE BLUE BOOK OF AMERICAN SHIPPING. COPYRIGHTED, 1909.

# AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES-Continued.

CLASS.	VESSEL.		Gross	Gross Net Tonnage Tonnage	Keel Beam	vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug	Apollo		83	56	87x16	1890	S. D. Upham, Saugatuck, Mich. Rebuilt 1902.
Gas	Arbutus		6	9	43x11	1904	Figure F. Cooley Lansing Mich
Gas:			17	14,	43x14	1904	W. L. Baum, Chicago, III.
Str	Arcadia		230	146	118x26	1888	
Str	Arctic	:	6	9	36×10	1906	Silver Lake Ice Co., Buffalo, N. Y.
Tug	Arctic	:	7	45	76×18	1881	
Tug	Arctic	:	23	17	.50x18	1881	
Sch			521	496	179x35	1888	_
Sch	Arendal		202	198	123×26	1873	
St.	Argo		721	490	192x35	1895	Argo Steamship Co., Cleveland, O.
Sch	Argo		14	14	36x14	1873	
Se Bge	Argo		168	160	$107 \times 24$	1868	-
Yly			6	0	35x 9	1899	E. M. Arden, Chicago, III.
Bge	Argosy	:	168	160	$107 \times 24$	1868	-
St	Argosy		<b>\$</b>	ee	$69 \times 16$	1904	
St.	Ariel		20 <u>1</u>	119	95x28	82	
Gas	Ariel		/	9	43x 3	1898	
Str	Arita		13	0	46x13	1901	E. Loesch, Erie, Pa.
St.			765	601	189×32	1868	Gray Transportation Co., Cleveland, O.
S.			1990	1452	264×40	1889	George B. Taylor, Erie, Pa.
Sch	Armstrong,	Thos	66	<b>&amp;</b>	82×21	1888	J. Fleury, Isle La Motte, Vt.
ج: ب	•	™ Wm::	181	6	100×30	1876	
Gas			39	37	65×15	1879	
Stp	‡Arrow		365	182	$165 \times 28$	1895	Sandusky & Isl. Stbt. Co., E. McFall, Mngr.,
							Sandusky, O.
Sty	Arrow		14	6	46x10	1901	1901 Geo. Waters, Jr., Frankfort, Mich. Out of
Gas	Arrow		14	12		1004	Ludvio
Gap	٠,		<b>=</b> ;	0	40×10	1906	James H. Zahn, Chicago, III.
Str	Arthur		ဗ္ဗ	92	55x14	1889 889	Cornelius Tamms, Milwaukee, Wis.

1890 Thos. Hadlund, Bayfield, Wis. 1892 David Blom, Holland, Mich. 1889 Great Lakes Towing Co., Cleveland, O. 1875 Hans P. Hansen, Escanaba, Mich. 1873 A. R. Lee, Detroit, Mich. 1883 Joseph A. Hutton, Rondout, N. Y. 1867 Schroeder Lumber Co., Milwaukee, Wis. Rebuilt	1886 Edw. Hines Lumber Co., Chicago. 1906 Pennsylvania Ontario Transportation Co., Cleveland, O. 1906 U. S. Lignthouse Establishment, Washington,	1897 Lake Erie Trans. Co., Cleveland, O. 1887 J. R. Snook, Mt. Clemens, Mich. 1903 Herman Dahlke, Chicago, Ill. Lost. 1863 E. W. Thompson, Pt. Huron, Mich. 1878 Western Transit Co., Buffalo, N. Y. 1889 Abram Fisher, Grand Haven, Mich. 1889 Geo. J. Liasse, Burlington, Vt. 1885 Geo. J. Liasse, Burlington, Vt. 1885 John Corrigan, Cleveland, O. 1900 Henry Wineman Jr., Detroit, Mich. 1896 Geo. E. Huntley, Buffalo, N. Y. 1896 Geo. E. Huntley, Buffalo, N. Y. 1896 Geo. E. Huntley, Buffalo, N. Y. 1897 Geo. E. Huntley, Buffalo, N. Y. 1898 Geo. E. Huntley, Buffalo, N. Y.	
54x15 58x13 48x13 50x13 166x26 95x17 87x19	218x37 338x56 126x25	293×45 1109×29 1116×30 1134×25 258×35 58×13 60× 8 96×1 77×20 352×44 290×41 45×11 45×11	241×37 60×16 57×13 78×16 
13 15 10 14 257 106 57	956 1525	1953 106 113 261 1662 13 108 59 2899 2899 2899 109	201 1425 31 12 58
Str         Arthur         25           Sty         Arthur         2           Tug         Arthur         0         21           Tug         Arthur         0         21           Str         ‡Arundell         23         339           Scb         Ashford         132         339           Str         Ashland         97         97	Sch Ashland 991 Str ‡Ashtabula 2670 Tug ‡Aspen 377	_ ''	Str Aversil, Wm. J
Strug Tug Sch	ww H	SS	WHI WWW

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CLASS.	VESSEL.	Gross Net Tonnage Tonnage	Net	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str /	Aztec	. 834	653	180×33	1889	1889 Spence Bros., Cleveland, O.
	8					
Tug I	Babcock, W. I	37	223	71x17 68x14		Great Lakes Towing Co., Cleveland, O. Frank J. Matters, Dunkirk, N. Y. Abandoned.
	Badger	. 614 10		182x33 41x10		Abraham King, Marine City, Mich. A. A. Haertl, Neenah, Wis.
Str E	Badger State 987 Baker, Fannie L. 43	. 987 7305	£22	213×33 68×17 58×17	1882 1882 1905	Badger State Trans. Co., Detroit, Mich.
•		13		39x 9	4000	Name changed to Burgard.
	Baldwin, H. P			78x30 177x33		Co
Bge I	Baldwin, S. C.	412 250		160×30 130×21	1871	Adolph Green, Green Bay, Wis. Rebuilt 1905. Thomas Charlton N. Tonawanda N. Y.
Str #B			-	480×52 530×56		G. A. Tomlinson, Duluth.
	Baltic	915		202x34	-	Metery J. Pauly, Duluth, Minn. Western Stone Co. Chicago, III
	Banks, Louis Banst Frank L.		% 19:8	51x12 59x17	1897	
+	Barker, S. B 17	_ <u>`</u>	131 485 5	96x17		A. Booth & Co., Chicago, III.
		88	•	151×30		Patrick Myers, Chicago, III.
	Barnes, C. C Barnes, Frank C	948	_ }≈≈	66x16 74x16	1892	L. S. Sullivan, 101edo, U. Oscar Olson, Dulluth, Minn. Wm. T. Kelley, Adms. Frie. P.
· · · ++ ·	Barth, L. L. 68 ‡Bartow, J. H6316	· m	, L	185×35 24×54		E. Hines Lumber Co., Chicago, III. E. D. Carter, Erie, Pa.
Str B	Batavia	202 202	158	98×28	1904 I	Lehigh Valley Trans. Co., Buffalo, N. Y.

The second secon

	, in o	Wis.	30.	N Y.	Joseph,
•	S. C. Schenck, Toledo, O. Rebuilt 1905. Frank Roneker, Tonawanda, N. Y. John Mason, Muskegon, Mich. Out of Com. J. H. Hawley, Buffalo, N. Y. C. M. Haight, Boston, Mass. National Steamship Co., Derroit, Mich. Pittsburg Steamship Co., Cleveland, O.	Sherman Shurg, N.	Rebuilt 1890	Alexander McDonald, Duluth, Mnn. Cleveland Dredge & Dock Co., Cleveland, O. W. H. Rees, Clayton, N. Y. Ole Jensen, Manitowoc, Wis. York S. S. Co., J. J. Boland, Mgr., Buffalo, N.Y. Michael Maher, Erie, Pa.	
EB.	S. C. Schenck, Toledo, O. Rebuilt 1905. Frank Roneker, Tonawanda, N. Y. John Mason, Muskegon, Mich. Out J. H. Hawley, Buffalo, N. Y. C. M. Haight, Boston, Mass. National Steamship Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O.	li 6th ave., Milwauke Leveland, O. troit, Mich. 2 and 4 Sherma Co., Ogdensburg,	ebuil	leve Buffa	St.
<b>EANA</b>	h. O. Mi	O. 1. 4 S densi	O	8r., ]	ဝ ႕ပိ
1 0B 3	Reb nda, Micl Micl Y. Tass, troit	th ave., eland, O t, Mich. and 4	ton, O. O. Ch. Wis.	. H. W. F. T. J. M. T	nd, Mich 11s.
OWKE	On, N. Do., Co., Co., Co., Co., Co., Co., Co., C	6th vela 2 au	Clinacin Mi	oc, Your	evela o. O. Tran
NAME AND ADDRESS OF OWNER OR MANAGER	Frank Roneker, Toledo, O. Reb Frank Roneker, Tonawanda, John Mason, Muskegon, Mich H. Hawley, Buffalo, N. Y. J. M. Haight, Boston, Mass. Agilonal Steamship Co., Detroit Sittsburg Steamship Co., Cleveli	al (	Port To r., R	and, on, l itow J. Be	Stephens, Cleveland & Co., Chicago. Brown, Detroit, Mic & Morton Trans. Mich.
DDBE	Mu M	lson, 63 Co., De derson, III. Coal	on, H ros., cel, S Alg	edge Clayt Man K. J.	Mort City
AND A	son, son, wley, aigh Stear	Coa Vav. And Ago, Hall	lanlc n B Hytt row.	Mar. Co.	Mich John
NAM	Sch R R Ma Ma Ha L Ha nnal	J. A. N. burg Cos C. Nav. iam An Chicago,	Lost. J. H ymanı s. M. Harı gene L	Independent I. Re Jens S. S.	es & Soth
	S. C. Schenck, Toledo, O. Rebuilt Frank Roneker, Tonawanda, N. John Mason, Muskegon, Mich. I. H. Hawley, Buffalo, N. Y. C. M. Haight, Boston, Mass. National Steamship Co, Detroit, M. Pittsburg Steamship Co, Cleveland	Capt. J. A. Nelson, 631 6th ave., I Pittsburg Coal Co., Cleveland, O. D. William Anderson, 2 and 4 Chicago, III. George Hall Coal Co., Ogde	Lost. Leo J. Hanlon, Port Clinton, O. Breymann Bros., Toledo, O. F. Chas. M. Hyttel, Sr., Racine, Wis. J. P. Harrow, Algonac, Mich. Eugene D. Hall, Florida, O.	Alexander McDonald, Duluth, E Cleveland Dredge & Dock Co W. H. Rees, Clayton, N. Y. Ole Jensen, Manitowoc, Wis. York S. S. Co., J. J. Boland, M. Michael Maher, Erie, Pa.	Graves & Stephens, Cleveland, O. A. Booth & Co, Chicago. Wm. W. Brown, Detroit, Mich. Graham & Morton Trans. Co
Year Built	1883 1895 1895 1896 1906 1906 1898 1898 1		1907 1867 1889 1863 1887		1882 1894 1903
K eel Beam	61x16 40x12 36x13 146x34 96x17 240x41 480x52 413x50	122x24 132x35 171x35 237x43 177x33	39x11 74x17 56x13 197x31 78x12	35x22 162x40 31x11 76x21 480x54 53x14	49×14 108×21 59×13 68×17
Tot Bago		163 1 541 1 536 2 527 1	62 14 19 19	•	21 <b>4</b> 508
Gross Net Tonnage Tonnage		-		4	
Gross	— — · •	. 552 . 552 . 1997	31 31 39 39	772 75 6035 6035	8888
	ν. Φ		g	-	(A)
╢ .	L. iis A hur hur K	k nond nond  G	S Emn Ison	da ohn	as. I son
VESSEL.	g Birckhead, L. Bird, Francis A. Birdie Bishop, Anna R. Bissell, Arthur D. Biwabik #Bixby, W. K.	Black Hawk Black Diamond Black Diamond Black Rock Blaine, Jas. G	Blazier, J. S Blocker, Emma Bloom, Nelson	Bge No. 20. 772 Bge No. 20. 772 Bobolink 50 Bock, Isolda 70 \$\$Boland, John J6035 Boles, W. A 22	Bolton, Chas. E Bon Ami Bond, Nelson Bonita
	rckh rd, F rdie shop ssell, wabi ack,	Black Black Black Black J Black J	lanclazier oeck oom	No. Se No. Sek. Oland	olton on A ond, nita
	E E E E E E E E E E E E E E E E E E E			a Mana Mana Mana	Str Bolton. Str Bon A. Str Bond, Tug ‡Bonita
CLA88.	Sch Sch Sch Sch Sch Sch Str Str	Sch Str.	Gas Str Sch	Sch Str Str	Trans.
		04			

1882 1889 1891 1899   Lake Superior Contracting & Dredging Co., 1899   Board of Trade, Duluth, Minn.	1892 J.		1871 W. E. Donely, Saginaw, Mich. 1867 Peter La Croix, Port Huron, Mich. 1302 W. A. Hawgood, Cleveland, O. 1890 Wisconsin Transportation Co., Sheboygan, Wis. 1903 John B. Breyman, Toledo, O.
65x20 18 113x24 18 89x22 18 89x22 18 113x24 18 115x24 18 1115x24 18 1115x24 18 1115x24 18	AACAA CCC		
122 1122 1136 1169 167 167 167			393 302 3386 1655 41
63 B No. 12 B No. 15 B No. 15 B No. 17 B No. 19 B No. 20 B No. 20	Bonita Bonner, J. Tabope, H. P. Boscobel Bottsford, R. Boutrke, Mary N.	Bowser. Boyce, G. J. Boyce, G. J. Boyce, Mary H. Boyd, Harry H. Boynton, C. L. Bradley, Chas. H. ‡Bradley, M. A. ‡Brady, John I.	Brainard, Katie Brake, Wm. ‡Bransford4 ‡Brazil2 Breyman, G. H.
SC W	rsspr strategy	Sch 75tr 75tr Skr 75t	Sch Str Tug

CLASS.	VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug Dge	Breyman, John B Brian Boru	59 . 348	40 296	71x18 94x28	1885 1889	John B. Breyman, Toledo. Rebuilt 1904 Dunbar & Sullivan Dredgug Co., Buffalo, N. Y.
Sch Sch Bge Str	Bridgeport Brier Brightie Brightie Brink, Ben #Britannia	125 87 317 791	125 59 570 317 401	95x19 99x16 182x33 150x29 164x45	1880 1882 1868 1888 1906	Thos. M. Ryan, Buffalo, N. Y. E. H. Brown, Chicago, Ill. O. W. Blodgett, Bay City, Mich. Western Transit Co., Buffalo, N. Y. Detroit, Belle Isle & Windsor Ferry Co., De-
Str Str Tug Sch	Britannic ‡Briton Brockway, Geo Brogan, L. T Bronson, Tracy	E. 164 E. 164 J. 277	904 1875 82 30 263	219x36 296x40 112x20 66x18 137x26	1888 1891 1867 1906 1857	H. McMorran, Port Huron, Mich. Pittsburg Steamship Co., Cleveland, O. Great Lakes Towing Co., Cleveland, O. Great Lakes Dredge & Dock Co., Chicago, III. Buffalo Dredging Co., Buffalo, N. Y. Out of
Str Str Str Str Str Str Str Str Str	## Brooks, H. G 20 ## Brooks, LeRoy 41 ## Brower, A. G 3582 ## Brower, Henry F 30 ## Brown, Belle 217 ## Brown, Harvey H. 2673 ## Brown, J. J. H 5069 ## Brown, M. P 60 ## Brown, M. P 60 ## Brown, M. P 60	20 3582 362 217 2080 2673 2669 60 37	14 25 2778 15 207 1217 1874 3787 18	57x14 75x14 346x43 60x15 124x27 252x40 351x40 351x40 88x 5 65x14	1888 1891 1902 1882 1887 1887 1908 1890 1870	Eugh Jaco North Wm. Wm.
Sch	Brown, Willie Brown, W. W. Brownie Bruce, B. F.		2778 10 6 17 3853	47x13 47x13 346x48 65x10 58x15 400x50	1871 1902 1896 1873 1900	G. C. Tommison, Dullen, Co. Bay Cit. U. S. T. Co. Rockefeller Geo. E. Morse, Clayton, N. Y. F. P. Nestor, Duluth, Minn. Pittsburg Steamship Co., Cley

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1901 Timothy Hurley, Detroit, Mich. 1892 Cleveland Cliffs Iron Co., Cleveland, O.

 Str
 Cadiilac
 19
 11
 50x13

 Str
 ‡Cadillac
 1263
 1068
 230x37

OLABS.	VESET.	Gross Net Tonnage Tonnage	Net Tonnage	Keel Beam	Y ear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch		431 345 6328	4685 4685	166×30	1881 1899 1908	Shannon & Garey, Saginaw, Mich. Empire Limestone Co., Buffalo, N. Y. S. P. Crangor, Ray, City, Mich.
		.2197	1509	277×42		John J. Boland, Buffalo, N. Y.
	Callister, I. W	. 256	243	134x28 60x13		M. Shaw, Cape Vincent, N. Y. Peter Jensen, Grand Haven, Mich.
70	i	.4928	3673	420x52		Lackawanna Steamship Co., Buffalo, N. Y.
in the	Calumet	200	9	39×10		Joseph W. Spahn, Chicago, III.
	lypso		41	(3x19	1907	Conrad Niederman, Milwaukee, Wis.
	mibria	.1878	1377	280×40	1887	Pittsburg Steamship Co., Cleveland, O.
	bria		24	94x12	1894	John Stevens, Neenah, Wis.
	Ben	116	63	103×17	1901	Great Lakes Iowing Co., Cleveland, O. W. H. Hanson, Schenectady, N. V.
		595	539	182x34		A. B. Maclaren, Toledo, O.
		10	10	33x16	1905	W. A. Dygert, Clayton, N. Y.
		205 .	192	121x25		Win Schlosser, Milwaukee, Wis.
	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	3	31	49x16		W. F. Markham, Plymouth, Mich.
	Table Mann		800	137×19		Harry T Wicks, Saginaw, Mich.
	a Wagner		13	54x11	1901	Dave Wagoner, Alexandria Bay, N. Y.
1	THS	94	024	50x10		Weston U. Cline, Massena, N. Y.
4	Meger		10	11K-20	1000	W. L. Visger, Alexandria Bay, N.
	Felix.	. 591	451	218x32		Detroit Transportation Co Detroit Mich. for
						merly John C. Gault.
	atl	. 33	16	57x15	1889	Sophia Meyer, Milwaukee, Wis.
11.	Carnegie, Andrew	.4106	3067	152x30 403x48	1883	United Transit C. & T. Co., Ogdensburg, N. Y.
Bgo	Caroline	33		60x15	1898	John Hendrick, Oswego, N. Y.
Str	Carpenter, A. A.	1304		220x40 60x15	1892	Walter M. Thompson, Duluth, Minn. Independent Tug Line, Duluth, Minn
						-

1881 Adolph Green, Green Bay, Wis. 1898 S. H. Jenks, Grand Rapids, Mich. Out of	1895 George Mooney, Erie, Pa. 1865 Henry Caesar, Chicago, III. 1876 Walter S. Lloyd, Duluth, Minn. Lost. 1875 Great Lakes Towing Co., Cleveland, O. 1877 Gook & Brown Lime Co., Cleveland, O. 1877 Cook & Brown Lime Co., Cleveland, O. 1878 Great Lakes Towing Co., Cleveland, O. 1886 Churchill Lumber Co., Alpena, Mich. 1895 Great Lakes Towing Co., Cleveland, O. 1899 J. C. Gilchrist, Cleveland, O. 1874 Frank Roneker, Tonawanda, N. Y.	1867 James F. Scott, Fort Huron, Mich. 1890 H. H. Brown & Co., Cleveland, O. Rebuilt 1905.	1892 O. G. Staples, Washington, D. C. 1882 Myles Trans. Co., Ltd., Niagara Falls, N. Y. Formerly Str. Myles.	1906 1872 1905 1867	1876 John H. Lewis, Muskegon, Mich. Out of Commission. 1893 Hopkins S. S. Co. (Cl. Cliffs I. Co.), Cleveland. 1852 Martin Carlson, Sheboygan, Wis. 1889 Great Lakes Towing Co., Cleveland, O. 1884 The Standard Contracting Co., Cleveland, O. 1885 Chas. Chambers, Detroit, Mich. 1895 Chas. W. McConnell, Indian River, Mich
165×33 62×10	33×11 123×26 76×19 77×16 352×44 112×24 112×24 122×28 72×19 286×42	136x26 292x40	89×15 33×14	306x36 57x11 35x10 39x10 39x12	49×13 360×45 87×22 65×16 59×15 67×22 60×14
524 25	8 177 36 32 2861 101 101 171 49 1901	ZZZ9	<b>75</b> 28	5063 16 10	24 24 28 28 28 28 28 28 28 28 28 28 28 28 28
Jarrie J. A. A. 540	B 187 187 187 187 187 189 2 18	Casey, Lyman ‡Castalia	Str Cataract1198	tCayuga 6 Cayuga 6 Cecil W. Celt	Str Centennial 29 Str ‡Centurion3401 Sch Challenge 87 Tug Chamberlain, H. L. 56 Tug Chamberlain, Selah. 33 Sch Chambers, Charles. 90 Str Charles D 25

CLABS.	VESSEL.	Gross   Net Tonnage   Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch Sch Sch Sch Str	Cahoon, Thos. H. Calcium tCalcum Calcium Callister J. W. tCalumet Calumet Calumet Calvier Calvier Calvier Canepbell, Ben Campbell, Ben Campbell, Ben Canger Horn Capitola Carbany, Fred	. 431 . 534 . 534 . 535 . 535 . 535 . 133 . 133 . 1304 . 1	409 3445 1509 248 248 248 3673 63 63 63 63 63 63 63 63 63 63 63 63 63	166x30 504x54 277x42 134x28 60x13 420x52 39x10 73x19 74x11 103x17 1182x34 33x16 121x25 12	1881 1908 1908 1909 1907 1901 1892 1893 1883 1883 1883 1883 1883 1883 1883	Shannon & Garey, Saginaw, Mich. Empire Limestone Co., Buffalo, N. Y. S. P. Cranage, Bay City, Mich. John J. Boland, Buffalo, N. Y. M. Shaw, Cape Vincent, N. Y. Peter Jensen, Grand Haven, Mich. Lackawanna Steamship Co., Buffalo, N. Y. Joseph W. Spahn, Chicago, Ill. Conrad Niederman. Milwaukee, Wis. John E. McIntosh, Cayuga, N. Y. Pittsburg Steamship Co., Cleveland, O. John Stevens, Neenah, Wis. John Stevens, Neenah, Wis. W. H. Hanson, Schenectady, N. Y. W. B. Maclaren, Toledo, O. W. H. Hanson, Schenectady, N. Y. Win Schlosser, Milwaukee, Wis. W. F. Markham, Plymouth, Mich. Harry T Wicks, Saginaw, Mich. Harry T Wicks, Saginaw, Mich. W. L. Visger, Alexandria Bay, N. Y. Weston U. Cline, Massena, N. Y. Detroit Transportation Co., Detroit, Mich. merly John C. Gault. Sophia Meyer, Milwaukee, Wis. Ogdensburg C. & T. Co., Ogdensburg, N. Y. Wilson Transit C., Cleveland, O. John Hendrick, Oswego, N. Y. Walter M. Thompson, Duluth, Minn.

1881 Adolph Green, Green Bay, Wis. 1898 S. H. Jenks, Grand Rapids, Mich. Out of Com.	1895 1865 1876 1877 1897 1906 1886 1895 1895 1874	<ul> <li>1890 H. H. Brown &amp; Co., Cleveland, O. 1905.</li> <li>1898 O. G. Staples, Washington, D. C. 1882 Myles Trans. Co., Ltd., Niagara Fa Formerly Str. Myles.</li> <li>1892 Harry T. Wicks, Saginaw, Mich.</li> </ul>	1906 1872 1905 1867 1879 1879	1893 Hopkins S. S. Co. (Cl. Cliffs I. Co.), Cleveland. 1852 Martin Carlson, Sheboygan, Wis. 1889 Great Lakes Towing Co., Cleveland, O. 1884 The Standard Contracting Co., Cleveland, O. 1895 Chas. Chambers, Detroit, Mich. 1894 Chas. W. McConnell, Indian River, Mich.
165×33 62×10	33×11 123×26 76×19 67×16 352×44 112×28 122×28 122×28 72×19 286×49 136×26	292x40 89x15 33x14 67x18	306x36 57x11 35x10 39x10 33x12 49x13	360x45 87x22 65x16 59x15 67x22 60x14
524 25	8 177 36 32 32 2861 101 5063 171 49 1901 786	2229 23 742 30	5063 16 10 10 18	272 82 82 16 83 85 85
Sch Carrie J 80	Sch Carrie L	tCastália Castanet Cataract Catherine	77	Str †Centurion3401 Sch Challenge

	Chicago,	ton, Vt. Co., Grand Island,	. Chicago,
MANAGER.	1. Y. ng Co.,	n, Vt. 0., Grat	Vis. ich.  N. Y. Clicago, Chicago, Chicago, Chicago, Chicago, ing Co., N. Y. Veland, Coich.
OWHEROR	go, III. cago, II lo, N. Wrecki	∞ ~	skey, M. Y. V.
Address of	ce, Chica vig, Chi r, Buffa wing &	Ashtabula, O. Co., Burling d Steamship	ll, Petos had, Buffa had, Buffa had, Buffa had, Buffa had, Buffa had, Buffa had, Chic had had, Chic had
NAME AND ADDRESS OF OWNER OR MANAGER	J. A. Lawrence, Chicago, Ill. L. M. Haarvig, Chicago, Ill. Alex McIver, Buffalo, N. Y. Dunham Towing & Wrecking Co.,	Geo. Owen, Ashtabula, O. Champlain T. Co., Burlington, Vt. Grand Island Steamship Co., Gi	W. A. Whitney, Superior, Wis. A. L. Hamill, Petoskey, Mich. Geo. W. Pound, Buffalo, N. Y. Union Steamboat Line, Buffalo, N. Y. Great Lakes Towing Co., Cleveland, O. R. Floyd Clinch, Chicago, Ill. W. S. Brainard, Toledo, O. W. C. Brusger, Chicago, Ill. Frank Martinek, Chicago, Ill. Frank Martinek, Chicago, Ill. Goodrich Transportation Co., Chicago, Dunham Towing & Wrecking Co., Ill. Western Transit Co., Buffalo, N. Y. Chicago Fire Dept. Rebuilt 1901. W. C. Richardson, Magr., Cleveland, O. James Davidson, Bay City, Mich. C. W. Elphicke, Chicago, Ill. F. J. Gill, Steubenville, O. Eli Jacques, Duluth, Minn. Julius Kroos, Sheboygan, Wis. Brainard, Toledo, O.
			W. A. I I A. I I A. I A. I A. I A. I A.
Year Built	1901 1895 1885 1882	1902 1888 1898	1894 1907 1888 1888 1889 1903 1904 1905 1882 1882 1882 1883 1888 1888 1888 1888
Keel Beam	73x20 44x12 61x16 78x19	69×16 196×29 308×45	64x13 31x 6 325x41 66x16 112x25 208x35 42x 9 31x 9 52x10 60x17 81x18 81x18 81x18 81x18 82x44 81x18 81x18 81x18 82x44 81x18 82x44 82x10
Gross Net Tonnage Tonnage	25 17 18 18 14	31 576 2266	95 21 21 24 1943 24 1112 6 6 8 8 58 20 20 2546 113 2539 2692 11845 11845 11845 11845 11845 11845 11845 11845 11845 11845 11845 1184 1185 1185
Gross	<b>2</b> 5 ≈ ≈ ≈ ≈	. 45 742 .2339	32 32 32 32 32 32 32 32 32 32 32 32 32 3
	C. R.	hen	
VESSEL	Charlotte Charnotte R Charm	Tug Chase, Stephen Stp ‡Chateaugay Sch Chattanooga	Cheboygan Cheboygan Chemaun Chemaun Cheney, O. W Chequamegon Cherokee Chester Chester Chicago
CLASS.	Sch (Sly Tug Tug	Tug ( Stp ‡C Sch (	Scarce Strain St

1900 Kelley Isl. Lime & T. Co., Cleveland, O. 1892 Grand Island Steamship Co., Grand Island, Mich.		Hanney Fish Co., Cleveland, O.  The C. Nav. Co., Detroit, Mich.  The Lake Transit Co., Bay City, Mich.  Graham & Morton Trans. Co., Chicago.  Henry Wineman, Jr., Detroit, Mich.  C. & B. Transit Co., Cleveland, O. Rebuilt 1904.  E. Hines Lumber Co., Chicago, III.  Graham & Morton Trans. Co., Chicago, III.  Rebuilt 1905.  See City of St. Ignace.  7 D. & C. Nav. Co., Detroit, Mich.  9 D. & C. Nav. Co., Detroit, Mich.  8 C. & B. Transit Co., Cleveland, O.	2 J. C. Gilchrist, Cleveland, O. 1 Hutchinson & Co., Cleveland, O. Burned. 2 Frank Geele, Sheboygan, Wis. 9 C. B. Moiles, Saginaw, Mich. 8 C. W. Thomson, Mngr., St. Clair, Mich. 9 Chicago-South Haven Line, Chicago. 1 William Anderson, 2 and 4 Sherman St., Chicago, III. 8 D. & C. Nav. Co., Detroit, Mich.
1900 1892		1891 1893 1994 1891 1891 1890 1890 1888 1898	1892 1891 1872 1880 1893 1893 1891
150x35 266x38	36x 9 70x17 64x13 160x30 410x48 55x16 46x13 56x14	44x12 426x69 426x69 251x36 298x41 340x75 1140x30 254x34 272x40 422x54 286x40	301x24 297x41 127x26 134x26 141x29 161x31 297x41 266x69
259 1256	92 31 471 3137 27 10	282 3058 3058 811 1711 1604 310 1012 1324 2403 1454 1284	1817 1797 190 178 178 178 1675 1277
Str Chisholm Jr., Alv. S 435 Str ‡Choctaw1573	Sch Christian, D. E.         8           Str Christian, Sam'l J.         55           Sch Christiana         32           Str Christie, T. S.         517           Str Christopher         4260           Sly Cincle         28           Tug Circle         21           Str Ciscoe         25	Tug Clscoe	Str. City of Ganza

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1	Vessil.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	Name and Address of Owner or Mamager.
> > >	City of Marquette 19 City of Marquette 341 City of Mt. Clemens. 132	341 341	295 97	49×12 114×25 106×23	1882 1890 1884	Arthur S. Osburn, Duluth, Minn. Hill Steamboat Line, Kenosha, Wis. Geo. A. Douglas, Cleveland, O.
44	City of Muskegon, 1199	1199	912	211x39	1872	
	of N. Baltim'e, 80	e 2340	1973 60	$\begin{array}{c} 301x42 \\ 94x20 \end{array}$	1892 1875	<ol> <li>C. Gilchrist, Cleveland, O. George A. Berridge, Bay City, Mich.</li> </ol>
	of Paris 2062	2062	1714 801	298x41 203x40	1891 1880	S. P. Cranage, Bay City, Mich. Goodrich Transit Co. Duluth, Minn.
100	lty of Rome 1908	1908	1594	268×40	383	J. C. Gilchrist, Cleveland, O.
	0.0	1923	1324	133x31 272x40	1889 1886	Name cr D. & C.
	of Shehovers	48	910	135~97	1871	Cleveland. W Schlosser et al Milwankee Wie
		1719	$1\overline{169}$	247×40	1903	
20.0	of the Lakes. 16	1004	15	51x14 934~36	1866	
200	City of Toledo 1003	1003	654	212x31	•••	White Star Line, Detroit, Mich.
1	City of Toledo 245	245	233	160x25		Harris W. Baker, Detroit, Mich.
40.00		1153	925	214x33	1871	Graham & Morton Transp. Co., Chicago, Ill.
	bors	. 19	11	50x13		Olaf A. Obe
pri.	Clara		221	$130 \times 27$	1874	
ED 59	Clara	: ક્રુલ	82	55×14 60×12		
CO.	Clara Belle	•	E,	73×16		
17 m	Clara H	9 <u>1</u> 2	ა ნ	29×11 50×13	1896	Name changed to Windward. Carl Johnson, Erie, Pa.
17 0	#Clarion1711	1711	1513 164	240x36 110x25		
1 75	Clarke, E. A. S 4713	.4713	3159	416×50	1899	

o e o t e e g	1872 Fritz Riebenach, Alpena, Mich. 1898 Kelley Island L. & T. Co., Cleveland. 1885 A. E. Patterson, Alexandria Bay, N. Y. 1881 Tonawanda I. & S. Co., N. Tonawanda, N. Y. 1874 William McCullouch, Port Huron, Mich. 1886 C. F. Mischler, Sandusky, O. 1872 M. A. Bradiey, Cleveland, O. 1884 Herbert J. Knight, Erie, Pa. Seized by Can-	ada. 1892 E. & W. T. Co. An'r L., Buffalo, N. Y. 1868 Independent Tug Line, Milwaukee, Wis. 1874 E. M. Carleton, Cleveland, O. 1882 Marine Nav. Co., Geo. G. Oliver, Mgr., Michigan	1906 Pittsburg Steamship Co., Cleveland, O. 1892 Pittsburg Steamship Co., Cleveland, O. 1891 Michigan Steamship Co., Detroit, Mich. 1882 J. C. Gilchrist, Cleveland, O. 1895 De Witt Mickley, Waterloo, N. Y. 1866 Charlevoix Lumber Co., Charlevoix, Mich. 1881 Great Lakes Towing Co., Cleveland, O. 1993 Great Lakes Dredge & Dock Co., Chicago, III. 1895 Garet Ellis, Clayton, N. Y. 1881 John Kelderhouse, Buffalo, N. Y. 1882 John Kelderhouse, Buffalo, N. Y. 1892 George T. Arnold, Mgr., Mackinaw Island, Mich.
95x17 91x18 40x10 41x13 96x17 480x52 468x52	168×32 96×24 33×11 256×36 116×25 61×15 501×33	275x40 66x15 191x33 129x27	580x58 308x38 308x38 356x50 244x36 91x17 118x26 118x26 58x12 58x12 58x12 109x20
94 88 9 113 110 4487 3991	692 62 1158 179 20 897 12	1802 15 509 154	1318 1318 3044 1323 3044 1323 176 48 392 17 1053
Clark, John W 99 Clark, S. L 125 Clayt 10 Clayton, Belle 140 Cleary, Wm. E 140 ‡Clement, S. M 5821 ‡Clemson, D. M 5531	Clinton 729 6 Clinton 124 Clover 15 Clyde 1306 11 Coates, Peter 32 Cootes, Peter 945 Cockell, Bertha L. 22	### ### ### ### ### ### ### ### ### ##	### ### ##############################
Str bo	Schrift Schrift Schrift Schrift Schrift Str	Str	Str Str Str Str Str Str Str Str Str Str

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NAME AND ADDRESS OF OWNER OR MARAGER.	Arthur S. Osburn, Duluth, Minn. Hill Steamboat Line, Kenosha, Wis. Geo. A. Douglas, Cleveland, O. William Carpenter, Muskegon, Mich. Former- ly Str. Peerless.	J. C. Gilchrist, Cleveland, O. George A. Berridge, Bay City, Mich. Goodrich Transit Co., Duluth, Minn. J. C. Gilchrist, Cleveland, O. Name changed to John Roberts. D. & C. Nav. Co., Detroit, Mich. Nee City of	W. Schlosser, et al., Milwaukee, Wis. Chicago-South Haven Line, Chicago. Thos. Wolf. Shepardville. O. D. & C. Nav. Co., Detroit. Mich. White Star Line, Detroit, Mich. Harris W. Baker, Detroit, Mich. Graham & Morton Transp. Co., Chicago, Ill. Olaf A. Oberg, Two Harbors, Wis.  Fred Olson. Manistee, Mich.	H. H. Westinghouse, Ithaca, N. Y. F. W. Gilchrist, Alpena, Mich. Carl Johnson, Erie, Pa. E. & W. T. Co., An'r Line., Buffalo, N. Y. Alexander Ruelle, Detroit. Not in commission. Mitchell & Co., Cleveland, O.
	1882 Arthu 1890 Hill 1884 Geo. 1872 Willi	1892 J. C. 1875 Geor 1891 S. P. 1891 S. P. 1881 J. C. 1889 Nam 1886 D. &	1871 W. 1903 Chic 1866 Thos 1878 D. 8 1891 Whii 1865 Harr 1867 Claf 1977 Olaf 1874	
Y ear Buils		• • • • • • • • • • • • • • • • • • • •		
Keel Beam	49x12 114x25 106x23 211x39	301x42 94x20 298x41 203x40 268x40 133x31 272x40	135x27 247x40 51x14 234x36 212x31 160x25 214x33 50x13 130x27 55x14	60x12 73x16 29x11 50x13 240x36 110x25 416x50
Gross Net Tonnage	295 97 912	1973 60 1714 801 1594 288 1324	210 1169 15 811 831 233 925 111 20	- 6
Gross	19 341 132 1199	2340 80 2062 11908 923	248 1719 1719 1004 1003 1003 11153 11153 19 245 245 245 245 245 245 245 245 245 245	46 17 17 164 164 164
VESSEL.	City of Marquette 19 City of Marquette 341 City of Mt. Clemens. 132 City of Muskegon. 1199	City of Naples2340 1 City of N. Baltin'e. 80 City of Paris2062 1 City of Racine1941 City of Rome1908 1 City of Rossford 355 City of St. Ignace 1923 13	++ +++	· · · · · · · · · · · · · · · · · · ·
CLASS.	Str Str Stp	£ \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	Sch Sch Wert Ker Ker Ker Ker Ker Ker Ker Ker Ker Ker	Str Syrty Str Str

1890 J. B. Pashby, Burlington, Vt. 1894 Elizabeth T. Scoulen, Buffalo, N. Y.	<ol> <li>M. R. Pickands, Cheboygan, Mich.</li> <li>H. E. Consaul, Clayton, N. Y.</li> </ol>	87 W. H. Scott, Buffalo, N. Y.	05 Mitchell & Co., Cleveland, O. B. Wolvin. Mngr	Duluth, Minn. (Lost).	1872 Fritz Riebenach, Alpena, Mich.	98 Kelley Island L. & T. Co., Cleveland.	A. E. Patterson, Alexandria Bay, N. Y.	81 Tonawanda I. & S. Co., N. Tonawanda, N. Y.	1874 William McCullouch, Fort Huron, Mich.	79 M A Bradley, Classical O		ada.	1892 E. & W. T. Co. An'r L., Buffalo, N. Y.	68 Independent Tug Line, Milwaukee, Wis.	74 E. M. Carleton, Cleveland, O.	82 Marine Nav. Co., Geo. G. Oliver, Mgr., Michigan City. Ind.		1906 Pittsburg Steamship Co., Cleveland, O.	92 Pittsburg Steamship Co., Cleveland, O.	01 Michigan Steamship Co., Detroit, Mich.		95 De Witt Mickley, Waterloo, N. Y.	84 Great I also Towning Co. Clareland O.	of Great Lakes Dredge & Dock Co., Chicago, III.	96 Jasper Ellis, Clayton, N. Y.	1881 John Kelderhouse, Buffalo, N. Y.	92 George I. Arnold, Mgr., Mackinaw Island, Mich.	
																		_	-			-,,	٠.		_			
95x17 91x18		96×17	480x52 468x52		$168 \times 32$	$96 \times 24$	33x11	256x3	116x25 61×15	90143	58x12		275×40	66x1	191×3	IZAXZ	uron.	580×58	308x3	356x5	244×3	91xI	116X2	124×40	58x1	235×35	109×20	
<b>\$</b> 8	9 13	110	999. 1999.	3	692	62	14	1158	179 96	200	12		1802	15	503	104	ner H	5484	1318	3044	1323	9 5 2 5	100	392	17	1053	€	
Cbt Clark, John W 99 Str Clark, S. L 125			#Clement, S. M	· · · · · · · · · · · · · · · · · · ·	th Clint, D. K 729	r Clinton 124	p Clover 15	ir Clyde1306	Sch. Coates, L. B 189 1	The Coalies, I citi 045	Str Cockell, Bertha L. 22		Str ‡Codorus2165	Str Coe. S. S. 31			Stp ‡Cole, Darius, See Steamer Huron.				_	Des Colonial 110	ge Colorado 180	Dge Columbia 522	r Columbia 26	Str Columbia1373	otr Columbia 139	
S	งง	W.	ภติ	3	S	Ś	S	ഗ	ŊΈ	ı Ü	S		က	S) (	ΩŪ	ď	S	S	S	Ś	ΩÚ	ΛÞ	٩Ę-	Ω	S	S	מ	

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1890 J. B. Pashby, Burlington, Vt. 1894 Elizabeth T. Scoulen. Buffalo. N. Y.	M. R. Pickands, Cheboygan, Mich.			1903 Frovident S. S. Co., A. B. Wolvin, Mngr., Duluth Minn (Lost)	1872 Fritz Riebenach, Alpena, Mich.	1898 Kelley Island L. & T. Co., Cleveland.	1885 A. E. Patterson, Alexandria Bay, N. Y.	1881 Tonawanda I. & S. Co., N. Tonawanda, N. Y.	1874 William McCullouch, Port Huron, Mich.	1872 M. A. Bradley Cleveland O.	Herbert J. Knight, Erie,		1868 Independent Tro Line Milwaukee Wie		1882 Marine Nav. Co., Geo. G. Oliver, Mgr., Michigan	City, Ind.	1906 Pittsburg Steamship Co., Cleveland, O.	Pittsburg Steamship Co., Cleveland, O.	1901 Michigan Steamship Co., Detroit, Mich.	1882 J. C. Gilchrist, Cleveland, O.	1895 De Witt Mickley, Waterloo, N. Y.	1866 Charlevoix Lumber Co., Charlevoix, Mich.	1009 Great Lakes 10wing Co., Cieveland, C.	1896 Tasper Ellis, Clayton N V			Mich.
95×17 91×18	40×10	96×17	480×52	468×52	$168 \times 32$	96x24	33x11	256x36	61×15	201x33	58x12	975.40	66x15	191x33	$129 \times 27$	Ton	580×58	308x38	356x50	244×36	91x17	118x26	194.40	58x12	235x35	109x20	
\$.8	0 4	112	4487	3991	692	62	14	1158	£ 6	897	12	1800	1	509	154	er H	5484				8	176	600	17	1053	ි	
t Clark, John W 99 Clark, S. L 125		Cleary. Wm. E.	‡Clement, S. M5	‡Clemson, D. M.	h Clint, D. K 729	Clinton 124	Clover	Clyde1306	Oates, L. B 189 I	Cobb. Ahira	Cockell, Bertha L. 22			Coffinberry, H. D., 778		o ‡Cole, Darius, See Steamer Huron.		. ‡Colgate, Jas. B1713	Colonel3879	Colonial1713	Colonial 110	e Colorado 186 z +Colton A W	P Columbia 50	Str Columbia 26	Columbia1373	Columbia 139	
St C	អ្នក	N N	Str	ž.	Scl	Ş	S,	is.	S E	S	Str		S	Str	Str	Sti	Str	S.	Š	ž	ž	ع 1	٥	St	Str	St	

FROM THE BLUE BOOK OF AMERICAN SHIPPING. COPYRIGHTED, 1909.

CLA88.	VESSEL.	Gross	Gross Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch Str Tug Stp Gas Stp	Columbia Columbia Columbia Columbia Columbia Columbia Columbus Columbus	1	104 411 77 77 338 338 945	92x17 81x17 84x20 200x 138x26 59x13	1889 1900 1900 1905 1893	Joseph W. Otts, Buffalo, N. Y. Peter Anderson, Marquette, Mich. Michael Sullivan, Buffalo, N. Y. Det. B. I & W. Ferry Co., Detroit. William H. Shelton, Dunkirk, N. Y. John Deist, Sandusky, O. Goodrich Trans. Co., Chicago, III.
Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch	Commerce Commerce Commerce Commerce Commodor Company I		52 13 98 311 510 1927 1562 131	00x13 50x12 99x19 141x31 176x34 265x42 .x	1805 1857 1857 1880 1875 1897 1882 1882	Herben I. Jones, Mr. Clemens, Mich. Herbert J. Knight, Erie, Pa. Doville Lake Sand & Gravel Co., Toledo, O. Estate of Capt. Geo. H. Flood, Chicago, III. Frank Desot, Tonawanda, N. Y. Western Transit Co., Buffalo, N. Y. W. A. Whitney, W. Superior, Wis. Crosby Trans. Co., Milwaukee, Wis. Pt. H. & Sarnia F. Co., Pt. Huron, Mich. Rebuilt.
Sch Sch Sch Sch Sch Sch Sch	Sch Connelly Bros	203 751 751 3862 3862 3862 3862 3862 3862	to.	99×30 201×36 89×18 72×16 145×32 451×44 75×13 106×25	1905 1896 1900 1900 1861 1897 1893 1906	Merchants Lighterage Co., Chicago, III. Calbick Trans. Co., Chicago, III. James Magee, Duluth, Minn. Great Lakes Towing Co., Cleveland, O. Cleveland Dredge & Dock Co., Cleveland, O. Inter-Lake (P. M. & Co.) Co., Cleveland, O. Rebuilt 1905. Norman D. Carpenter, Detroit, Mich. Fire Department, Chicago, III. E. F. England, Duluth, Minn.
Str Tug	700	135 132 157 53 27	115 126 78 26 17	96x17 118x25 102x21 68x18 58x14	1881 1882 1881 1893	

1896 H. Robbins, Clayton, N. Y. 1879 John Lockland, Menominee, Mich. 1889 Wm. Walsh, Chicago, III. 1886 Thos. Millor, Boyne City, Mich. 1896 Pittsburg Steamship Co., Cleveland, O. 1896 Pittsburg Steamship Co., Cleveland, O. 1897 E. Hines Lumber Co., Chicago. Burned. 1898 John C. Hines, Asst. Sec. N. C. Ry. Co., Phila- 1898 Andrew H. Crawford, St. Joseph, Mich. 1898 Andrew H. Crawford, St. Joseph, Mich. 1890 Boland & Cornelius, Buffalo, N. Y. 1908 Boland & Cornelius, Buffalo, N. Y. 1909 E. G. Wyckoff, Ithaca, N. Y. 1900 Pittsburg Steamship Co., Cleveland, O. 1891 Edward Hines Lumber Co., Chicago, III. 1892 Wm. A. Osborne. Mgr Duluth. Minn. 1908 Frontier S. S. Co., W. M. Mills, Mgr., Tonawanda, N. Y. 1874 Chas. W. Kotcher, Detroit, Mich. 1887 Philip Mago, Tonawanda, N. Y.	1882 Fittsburg Steamship Co., Cleveland, O. 1882 Fittsburg Steamship Co., Cleveland, O. 1895 Lehigh Valley R. R. Co., Buffalo, N. Y. 1874 Hulda Schulthers, Milwaukee, Wis. 1867 M. M. DeHaas, Marquette, Mich. 1906 L. C. Smith Transit Co., Syracuse, N. Y. 1888 Name changed to P. M. No. 6. 1902 Cowle T. Co., Williamson Bidg., Cleveland. 1881 J. P. Cummings, Chicago, Ill.
	• •
	299x40 320x42 320x42 47x14 63x14 63x14 549x56 130x26 420x50 79x23 49x15
411 927 927 929 95 95 95 95 95 95 95 95 95 9	
Slp         Cora         4           Sch         Cora         44           Sch         Coral         370           Str         Coral         433           Str         Corney, W. E 6363         835           Str         Cornelia         38           Str         Cornelia         44           Str         Cornelia         50           Str         Cornelia         65           Str         Cornelia         50           Str         Cornelia         51           Str         Cornelia         50           Str         Cornelia         51           Str         Cornelia <t< td=""><td>Str #Corsica</td></t<>	Str #Corsica

CLA88.	VESSEL,	Gross	Gross Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Coyne, Emma L. Craig	32	21	53x15	1905	Michael J. O'Brien, Cleveland, O. South Haven Towing & Wrecking Co., South Haven, Mich
Str	‡Craig, Geo. L3762 Cranage, Thomas2219 Crane, Frank R 16		3130 1855 8	360x50 305x43 47x12	1903 1893 1878	Adams Transp. Co., Detroit, Mich. S. P. Cranage, Bay City, Mich. Great Lakes Dredge & Dock Co., Chicago, III.
Tug Sip Str	Crawford Crazy Boy tCrerar, John	36 17 1550	18 16 955	60x16 46x14 241x41	1880 1889 1903	Dunham Towing & Wrecking Co., Chicago. William Harwood, Clayton, N. Y. Gt. Lakes & St. Lawrence Trans. Co., D. T. Duluth Minn.
Gap Str	Crev Coeuer Crescent	12 71 4213	10 50 3675	56×10 77×16 406×48		Floyd Rawley, Chicago, Ill. Lost. A. C. Mayo, Duluth, Minn. Pittsburg Steamship Co., Cleveland. O.
		62 33 2040 6189	36 15 1920 4764	75x17 56x15 288x44 480x52	1882 1882 1897 1907	John W. Hatch, Ogdensburg, N. Y. John J. Freitus, Buffalo, N. Y. W. C. Richardson, Cleveland, O. Lackawanna Steamship Co., Buffalo, N. Y.
Obt Tug Tug Str	Crombie, Wm. A Crosby Crosby, E. G Cross, Belle P	35 35 84 427	107 17 <b>305</b>	94×17 66×15 89×18 135×27	1881 1889 <b>1892</b> <b>1870</b>	S. E. Newell, Burlington, Vt. John Shea, Duluth, Minn. Great Lakes Towing Co., Cleveland. O. J. H. Clow, Duluth, Minn. Rebuilt 1902. Wrecked 1908
Str Scy Str	Grouse, J. S Cruiser Crysler, Walter	82 13 48	72 12 22	89×16 40×12 68×12		Cha Cha Est
Str Stp	Crystal	551	9 405	39×10 177×28	1905 Edw 1875 Jos.	1905 Edward G. Tews, Jr., Milwaukee, Wis.  1875 Jos. H. Rebstock, Buffalo, N. Y. Aban-doned.
280		•	7	90X40	0601	1039 fg. 1. Dundar, Bunalo, N. Y.

1907 Sarah A. Rogers, Saugatuck, Mich. 1906 Mitchell & Co., Cleveland, O. 1898 John Lundin, Marinette, Wis. 1888 Ine Lake Champlain Trans. Co., Whitehall,	1883 Hope Transit Co., Alpena, Mich., formerly Geo. T. Hone.	1881 J. C. Gilchrist, Clevelland, O. 1883 O. E. Wilbur, Charlevoix, Mich. 1882 John Pasque, Bayfield, Wis. 1893 Arthur H. Hawgood, Cleveland, O. 1859 Robert Bentell, Bay City, Mich. 1900 Dunbar & Sullivan Dredging Co., Buffalo, N. Y. 1895 M. B. Mills, Detroit, Mich.	1707 Lackawanna Steamship Co, Dunato, IV. I. Lost.	1901 Great Lakes Dredge & Dock Co., Chicago, III. 1901 Great Lakes Dredge & Dock Co., Chicago, III. 1903 Great Lakes Dredge & Dock Co., Chicago, III. 1903 Great Lakes Dredge & Dock Co., Chicago, III. 1904 Great Lakes Dredge & Dock Co., Chicago, III. 1906 Detroit Boat Club, Detroit, Mich. 1900 L. B. Newberry, Sandusky, O. 1881 Jacob Beller, Detroit, Mich. 1896 Ranney Fish Co., Cleveland, O. 1874 George Craig, Toledo, O. 1874 George Craig, Toledo, O. 1987 Helm, Mgr., Chicago, III. 1882 Herbert Pashby, Burlington, Vt. 1888 Christopher Warren, Tonawanda, N. Y. 1886 John A. Dash, Erie, Pa.
51x13 525x55 52x16	263×39	251x38 83x16 60x14 432x45 84x20 50x32 120x17	7CV07L	57 118×33 57 118×33 07 137×36 07 137×36 25 130×36 25 59×11 6 41×12 19 44×14 12 57×13 19 255×41 19 255×41 19 255×41 19 255×41 19 355×41 10 355×41 1
24 5361 26 17	1274	1280 41 18 2901 53 70	3	44000 :0
Str Cuckoo	Str Culligan, Patrick1558	Str Cumberland	O O	Bge D 33       457         Scw D 35       607         Scw D 36       607         Scw D 37       607         Sch D 37       715         Gas D. B. C. III.       30         Tug Dailey       9         Str Daisy       25         Str Daisy       25         Str Daisy       18         Str Daisy       1614         Tug Dalon, H. G. 1614         Tug Danforth, Grace       See         Cbt Danforth, L. B.       98         Tug Dark       11         Str Dash, John A.       13
			1	07

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CLASE	VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	‡Davidson, A. D1640	D1640	987	241×41	1903	1903 Great Lakes & St. Lawrence Trans. Co., D. T.
Str	‡Davidson, J. E6206	E6206	4943	504×54	1905	Inte
Str	Davidson, Thomas2226	omas2226	1714	285x41	1888	Henry J. Pauly, Duluth, Minn.
Cot	Davis,		2 2 2 3 3 3 3 3	96x17	1881 1881	William Munroe et al, Muskegon, Alice Brunson, St. Albans, Vt.
Tug Str	Davis, Townsend 67 Davock, Wm. B4468	send 67 1. B4468	33 3246	70×19 420×52	2890 9890 9890	
Sty		27	818	75×10	1901	J. S. Newberry, Detroit, Mich.
Dge Tu <b>g</b>		: :	32	70×19	1893	
Sch		139	132	97x25	1869	
Str	Deer	47	<b>2</b> 5	46x17	1892	
St	‡Defender	28	_	85×18	1895	
Str	De Graff, L. S 7971	S. 7971	111 6196	90x24 605x60	1905 1906	
Scb	Deland	9	_ `	94×17	1887	
Stv	‡Delaware	3901	3250 5	350x116 38x 7	1890 1890	Erie & Western I E. A. Wright, Chi
Sch		:	487	173×30	1868	O. W. Blodgett
7ug Tug	Delaware	1731	1526 13	252×36 39×11	1903	Name changed to las. I. Pendergast.
Scy	_	9!	9	$30 \times 10$	1901	
Sch	Delta	: :	266 286 286 286 286 286 286 286 286 286	04x18 134x28	1883 1890	
Tug		ın 39	15 26	75x15	1883	Theo. J. Denessen, Green Bay, W.
Str	Denis Brothers	: :	3 3 3	63x13	1881	
Sch	Denver		31	62x $16$	1887	

Scb Dohearty, Mike         726         196x36         1899 Leatham & Smith Towing & Wrecking Co., Sturgeon Bay, Wis.           Gas Doloma         43         29         59x12         1907         A. W. Hompe, Grand Rapids, Mich.           Tug Don         4x12         1901 Joseph Fratus, Eric, Pa.         Attail Six.         1904 Joseph Fratus, Eric, Pa.         Attail Six.         Attail Six.         1904 Joseph Fratus, Eric, Pa.         Attail Six.         1904 Joseph Fratus, Eric, Pa.         Attail Six.         1905 Joseph Fratus, Eric, Pa.         Attail Six.         1905 Joseph Fratus, Eric, Pa.         Attail Six.         Attail Six. <t< th=""><th>VESSEL.</th><th>Gross</th><th>Gross Net Tonnage Tonnage</th><th>Keel Beam</th><th>Year Built</th><th>NAME AND ADDRESS OF OWNER OR MANAGER.</th></t<>	VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
43         29         59×12         1907           420         399         155×31         1867           420         399         155×31         1867           13         64×55         1901           521         425         185×30         1880           107         101         96×17         1982           47         27         80×13         1901           47         27         80×13         1901           50         48         70×17         1882           10         33×10         1889           97         67         82×18         1891           199         67         82×18         1892           107         112×24         1896           107         112×24         1896           107         112×24         1896           107         112×24         1896           36         18         67×17         1873           36         18         67×17         1873           37         10         1896         39×11         1896           38         16         63×16         1899           38         1		. 726		196x36	1899	
11   8   44x12   1901   420   399   155x31   1867   1867   1867   1908   155x31   1867   1908   155x31   1867   1908			83	59×12	1907	Ą
420         399         19331         1891           13         62453         1908           521         425         185x80         1880           107         101         96x17         1882           47         27         80x13         1901           65         48         70x17         1868           10         10         33x10         1889           44         30         63x15         1901           90         62         72x16         1989           97         67         82x18         1882           107         112x24         1898           107         112x24         1898           107         112x24         1893           11         8         39x11         1893           36         18         67x17         1873           25         12         52x14         1893           34         16         63x16         1895           34         16         63x16         1893           38         14         63x11         1893           39         18         61x10         1899           30			∞ ç	44×12	1901	Jose
521     425     185×30     1880       521     425     185×30     1880       54     37     62×17     1982       47     27     80×13     1901       65     48     70×17     1868       10     10     33×10     1889       49     62     72×16     1901       230     123     120×22     1882       97     67     82×18     1892       107     112×24     1893       109     135     120×28     1905       11     8     39×11     1893       25     12     52×14     1893       24     63×15     1893       25     12     69×15     1807       26     15     90×27     1907       30     18     61×10     1899       84     80     95×21     1852	n. Geo. S		999 9	44x13	188 188 188 188 188	
521         425         185x30         1888           107         101         96x17         1882           54         37         62x17         1903           47         27         80x13         1901           65         48         70x17         1868           10         10         33x10         1889           49         30         63x15         1901           230         123         120x22         1882           17         17         12x24         1896           19         135         120x28         1896           19         135         120x28         1896           36         18         67x17         1873           25         12         52x14         1893           34         16         63x16         1899           34         16         63x16         1899           39         16         63x16         1899           30         18         61x10         1899           30         18         61x10         1899           44         80         95x21         1852	on, John		:	504×55	1908	
107 101 96x17 1882 I. B. Pashby, Burlington, Vt. 54 27 80x13 1901 Isaac Elizabeth Delaney Baker, Buffalo, N. Y. 80x13 1901 Isaac Eliwood, Chicago, III. 48 70x17 1889 F. P. Huron & S. Ferry Co., Port Huron, 10 10 35x10 1889 E. D. Patterson, Alexandria Bay, N. Y. 49 63x15 1901 Wm. Ver Duin, Grand Haven, Mich. 90 62 72x16 1901 Geo. Moon, Buffalo, N. Y. 230 123 120x22 1882 Capt. Harris W. Baker, Detroit, Mich. 97 67 82x18 1888 John Desana, Jr., Wyandotte, Mich. 107 112x24 1896 Craig Ship Building Co., Toledo, O. 118 39x11 1898 Charles B. McGiven, Erie, Pa. 89x11 1898 Charles B. McGiven, Erie, Pa. 18 67x17 1873 Independent Tug Line, Duluth, (Burned). 25 52x14 1893 E. J. Hingston, Buffalo, N. Y. 25 12 52x14 1893 Great Lakes Towing Co., Cleveland, O. 28 14 63x16 1890 Great Lakes Dredge & Dock Co., Chicag 159 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y. 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. 84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	n. I. P.		425	185×30	1880	
54 37 62x17 1903 Elizabeth Delaney Baker, Buffalo, N. Y. 80x13 1901 Isaac Ellwood, Chicago, III. 47 87 80x13 1901 Isaac Ellwood, Chicago, III. 48 70x17 1868 Pt. Huron & S. Ferry Co., Port Huron, 10 10 33x10 1898 E. D. Patterson, Alexandria Bay, N. Y. 44 30 63x16 1901 Wm. Ver Duin, Grand Haven, Mich. 20 123 120x22 1882 Capt. Harris W. Baker, Detroit, Mich. 97 67 82x18 1888 John Desana, Jr. Wyandotte, Mich. 107 112x24 1896 Craig Ship Building Co., Toledo, O. 11 8 39x11 1898 Charles B. McGiven, Erie, Pa. 80x17 1873 Independent Tug Line, Duluth, (Burned). 55 12 52x14 1893 E. J. Hingston, Buffalo, N. Y. 41 65x14 1866 M. Rabbit & Sons Co., Toledo, O. 31 15 65x15 1881 Great Lakes Dredge & Dock Co., Chicag 159 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y. 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. 84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	C, G	_	101	96x17	1882	
47 27 80x13 1901 Isaac Ellwood, Chicago, III. 54 70x17 1868 Pt. Huron & S. Ferry Co., Port Huron, 10 53x16 1901 Wm. Ver Dulin, Grand Haven, Mich. 20 63x16 1901 Geo. Moon, Buffalo, N. Y. 230 123 120x22 1882 Capt. Harris W. Baker, Detroit, Mich. 107 112x24 1896 ——, La Crosse, Wis. 199 135 120x28 1905 Craig Ship Building Co., Toledo, O. 11 8 39x11 1898 Charles B. McGiven, Erie, Pa. 36 18 67x17 1873 Independent Tug Line, Duluth, (Burned). 55 12 52x14 1893 E. J. Hingston, Buffalo, N. Y. 34 16 63x16 1890 Great Lakes Towing Co., Toledo, O. 31 15 69x15 1881 Great Lakes Dredge & Dock Co., Chicag 159 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y. 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. 36 186 1852 Capt. Chas. Anderson, Sheboygan, Wis.	, Wm. P		37	62x17	1903	
65 48 70x17 1868 Pt. Huron & S. Ferry Co., Port Huron, 44 30 183x10 1889 E. D. Patterson, Alexandria Bay, N. Y. 90 62 72x16 1901 Geo. Moon, Buffalo, N. Y. 230 123 120x22 1882 Capt. Harris W. Baker, Detroit, Mich. 97 67 82x18 1888 John Desana, Jr., Wyandotte, Mich. 107 112x24 1895 Craig Ship Building Co., Toledo, O. 135 120x28 1995 Craig Ship Building Co., Toledo, O. 136 183x11 1873 Independent Tug Line, Duluth, (Burned). 18 39x11 1873 Independent Tug Line, Duluth, (Burned). 18 5x14 1893 E. J. Hingston, Buffalo, N. Y. 25 12 52x14 1893 E. J. Hingston, Buffalo, N. Y. 25 14 63x16 1890 Great Lakes Towing Co., Cleveland, O. 26 14 62x14 1866 M. Rabbit & Sons Co., Toledo, O. 31 15 69x15 1891 Great Lakes Dredge & Dock Co., Chicag. 180 181 1852 Capt. Clemons, Clemons, N. Y. 84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.			27	80x13	1901	Isaac Ellwood, Chicago, III.
10 10 83×10 1889 E. D. Patterson, Alexandria Bay, N. Y. 43 63×15 1901 Wm. Ver Duin, Grand Haven, Mich. 62 72×16 1901 Geo. Moon, Buffalo, N. Y. 236 123 120×22 1882 Capt. Harris W. Baker, Detroit, Mich. 97 67 82×18 1888 John Desan, Jr., Wyandotte, Mich. 107 112×24 1896 Craig Ship Building Co., Toledo, O. 119 135 120×28 1905 Craig Ship Building Co., Toledo, O. 11 8 39×11 1898 Charles B. McGiven, Erie, Pa. 11 8 39×11 1898 Charles B. McGiven, Erie, Pa. 12 52×14 1893 E. J. Hingston, Buffalo, N. Y. (Burned) 25 12 52×14 1893 E. J. Hingston, Buffalo, N. Y. 28 14 62×14 1866 M. Rabbit & Sons Co., Toledo, O. 31 15 69×15 1881 Great Lakes Dredge & Dock Co., Chicagon, 189 61×10 1899 George L. Clemons, Clemons, N. Y. 84 80 95×21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	Grace	. 65	<b>%</b>	$70 \times 17$	1868	Pt. Huron & S. Ferry Co., Port Huron,
44 30 63x15 1901 Wm. Ver Duin, Grand Haven, Mich. 50 62 72x16 1901 Geo. Moon, Buffalo, N. Y. 230 123 120x22 1882 Capt. Harris W. Baker, Detroit, Mich. 97 67 82x18 1888 John Desan, Jr., Wandotte, Mich. 107 112x24 1896 Craig Ship Building Co., Toledo, O. 1199 135 120x28 1905 Craig Ship Building Co., Toledo, O. 118 8 39x11 1898 Charles B. McGiven, Erie, Pa. 118 67x17 1873 Independent Tug Line, Duluth, (Burned). 25 12 52x14 1893 E. J. Hingston, Buffalo, N. Y. 25 12 63x16 1890 Great Lakes Towing Co., Cleveland, O. 25 14 65x16 1890 Great Lakes Towing Co., Toledo, O. 25 15 90x27 1907 Anna L. Sloan, Buffalo, N. Y. 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. 684 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.		e :	2	33×10	883 883	
39 62 72x16 1901 Geo. Moon, Buffalo, N. Y 280 123 120x22 1882 Capt. Harris W. Baker. Detroit, Mich 97 67 82x18 1888 John Desana, Jr., Wyandotte, Mich 107 107 112x24 1896 199 135 120x28 1905 Craig Ship Building Co., Toledo, O 11 8 39x11 1898 Charles B. McGiven, Erie, Pa 36 18 67x17 1873 Independent Tug Line, Duluth, (Burned) 25 12 52x14 1893 E. J. Hingston, Buffalo, N. Y 34 16 63x16 1890 Great Lakes Towing Co., Cleveland, O 38 14 62x14 1866 M. Rabbit & Sons Co., Toledo, O 31 15 69x15 1881 Great Lakes Dredge & Dock Co., Chicag 159 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. e. 84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	, H. J	4	ස	63×15	1901	Wm.
E		ි :	62	72x16	1901	_
F		ල ස	123	$120 \times 22$	1882	_
E 107 107 112x24 1896 ————————————————————————————————————	· · · · · · · · · · · · · · · · · · ·	97	29	82×18	1888 888 888	John Desana, Jr., Wyandotte, Mich.
R. E       199       135       120x28       1905       Craig Ship Building Co., Toledo, O.         1 H.       11       8       39x11       1898       Charles B. McGiven, Erie, Pa.         I Dom       36       18       67x17       1873       Independent       Tug       Line, Duluth,         Rob.       25       12       55x14       1893       E. J. Hingston, Buffalo, N. Y.         Gittie       34       16       63x16       1890       Great Lakes Towing Co., Cleveland, O.         Gitti       31       15       69x14       1866       M. Rabbit & Sons Co., Toledo, O.         ght       31       15       69x15       1881       Great Lakes Dredge & Dock Co., Chicag          159       155       90x27       1907       Anna L. Sloan, Buffalo, N. Y.          30       18       61x10       1899       George L. Clemons, Clemons, N. Y.          30       18       65x21       1852       Capt. Chas. Anderson, Sheboygan, Wis.	ьi	•	107	112x24		
11 8 39x11 1898 Charles B. McGiven, Erie, Pa.  36 18 67x17 1873 Independent Tug Line, Duluth,  25 12 52x14 1893 E. J. Hingston, Buffalo, N. Y.  34 16 63x16 1890 Great Lakes Towing Co., Cleveland, O.  28 14 62x14 1866 M. Rabbit & Sons Co., Toledo, O.  31 15 69x15 1881 Great Lakes Dredge & Dock Co., Chicag.  159 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y.  30 18 61x10 1899 George L. Clemons, Clemons, N. Y.  84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	괃		135	120×28	1905	Craig Ship Building Co., Toledo, O.
36 18 67x17 1873 Independent Tug Line, Duluth, (Burned). 25 12 52x14 1893 E. J. Hingston, Buffalo, N. Y. 34 16 63x16 1890 Great Lakes Towing Co., Cleveland, O. 28 14 63x14 1866 M. Rabbit & Sons Co., Toledo, O. 31 15 69x15 1881 Great Lakes Dredge & Dock Co., Chicag 155 90x27 1907 Anna L. Sloan, Buffalo, N. Y. 30 18 61x10 1899 George L. Clemons, Clemons, N. Y. 84 80 95x21 1852 Capt. Chas. Anderson, Sheboygan, Wis.	eal H		œ	39x11	1898	Charles B. McGiven, Erie, P.
. 25 12 52x14 1893 . 34 16 63x16 1890 . 28 14 62x14 1866 . 31 15 69x15 1881 . 159 155 90x27 1907 . 30 18 61x10 1899 . 84 80 95x21 1852	, Tom		18	$67 \times 17$		Independent Tug Line, Duluth,
. 24 12 5241 1899 . 28 14 63x16 1890 . 31 15 69x15 1881 . 159 155 90x27 1907 . 30 18 61x10 1899 . 84 80 95x21 1852	400	č	5	K014	1009	
. 34 10 05310 1590 . 28 14 65x14 1866 . 31 15 69x15 1881 . 159 155 90x27 1907 . 30 18 61x10 1899 . 84 80 95x21 1852	, Nob.	3 5	7 5	41X20	1090	C. J. Lingston, Dunalo, M. I.
31 15 69x14 1866 31 15 69x15 1881 . 159 155 90x27 1907 . 30 18 61x10 1899 . 84 80 95x21 1852	Little	<b>\$</b> :	<b>9</b> ;	03X10	1090	Great Lakes Towing Co., Cleveland, O.
31 15 69×15 1881 . 159 155 90×27 1907 . 30 18 61×10 1899 . 84 80 95×21 1852		88	14	62×14	1866	
. 159 155 90x27 1907 . 30 18 61x10 1899 . 84 80 95x21 1852	ught	31	13	69x15	1881	
. 30 18 61x10 1899 . 84 80 95x21 1852	:	. 159	155	90x27	1907	
. 84 80 95x21 1852			18	61x10	1899	
	Josephine		8	95x21	1852	_

Tug	Drews, Fred	10	58x13	1900 Great Lakes Dredge & Dock Co., Chicago, Ill.
Str	Driscoll, Fred	17	64×14	1902 H. B. Kishman, Vermillion, O.
Str	Driscoll, J. H 27	19	60×15	1907 Frederick Driscoll, Vermillion, O.
Scb	DuBois	107	95x17	1883 Wm. J. Warwick, Buffalo, N. Y.
Str	Duchess	\$	$68 \times 13$	1887 C. F. Mischler, Sandusky, O.
Tug	Dudley, Joe D 37	28	65x15	1865 D. E. Stevens, Duluth, Minn.
Str	Duluth 247	163	98x29	1890 L. R. Boynton, St. Ignace, Mich.
Str	Duluth462	3785	$381 \times 50$	1903 Western Transit Co., Buffalo, N. Y.
Tug ;	Dunbar, Chas. F 136	35	86x23	1898 Daly & Hannan, Ogdensburg, N. Y.
Tug	Duncan City 179	<b>6</b> 8	$104 \times 18$	1883 Bert Rasch, Chicago, III.
Str	Duncan, John1267	997	225×37	1891 H. J. Pauly, Duluth, Minn.
Ltr	Dunford, Fred J 275	164	$127 \times 30$	Pitts
Str	Dunham, Jas. S. 4759	3644	420×52	1906 Chicago Navigation Co., Duluth, Minn.
Str	· ‡Dunn, John, Jr6160	4802	514x58	
Gas	Durkee, G. R 28	22	$60 \times 13$	1887 Geo. E. Davis, Sebewaing, Mich.
Str	Duro 18	12	45×12	1905 William F. Kolbe, Youngstown, N. Y.
Str	tDuro 11	-	40x13	1894 F. E. Smith, Cleveland, O.
Str	Durston, J. F	:	432×52	1908 H. S. Wilkinson, Syracuse, N. Y.
Dge	$\Box$	89	76×18	1886 Lake Sand & Gravel Co., Toledo, O.
Gas	Dutton, B. B 12	Ξ	42x10	1906 W. M. Thompson, Chicago, Ill.
Gas	D. Y. C. III	Ξ	46x10	1907 Detroit Yacht Club, Detroit, Mich.
Bge	$\Box$	106	$70 \times 22$	1894 M. Sullivan, Buffalo, N. Y.

746 677 14	2970 1380 13	400×42 252×39 43×11	1894 1887 1907	<ul> <li>42 1894 Pittsburg Steamship Co., Cleveland, O.</li> <li>39 1887 George B. Taylor, Erie, Pa.</li> <li>11 1907 Frank L. Root, Chicago, III.</li> </ul>
Eagle	6	50x	1905	Louis Boprey, Green Bay, Wis.
Str Eagle 182	131	123x	1873	Geo. P. Gubbins, Chicago, III.
Eagle 16	Ξ	ž	1903	Simon Schacht, Erie, Pa.
Eagle 8	Ó	õ	1906	, Buffalo, N. Y.
Earling, E. J 6657	5140 53	ž	1906	Franklin S. S. Co., Duluth, Minn.
Earnshaw, F. O 33	16	<del>X</del>	1886	Western Stone Co., Chicago, Ill.

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CLABS.	VESSEL.	Gross Net Tonnage Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWSER OR MANAGES.
Scw 5	Scb Earny Scw ‡Earthquake Sty ‡Eastern States Stor †Eastern States Stor †Fastland	384 384 3077	384 384 1566	53x18 106x30 366x45	1882 1904 1902	Ralph E. Wirt, Green Bay, Wis. Dunbar & Sullivan Dredging Co., Buffalo, N. Y. D. & B. Stbt. Co., W. C. McMillan, Mgr., Detroit.
St. T.	Easton, R. P.	19 65	313 813 813 813	154x30 46x13	1896 1896 1896	
Sc ₹	ri iri ir ri iri ir	: : \$62 \$68	157	107x25 107x25	388	H. R. Spencer, Duluth, Minn. H. R. Spencer, Dulutth, Minn. H. B. Scencer, Dulutth, Minn.
Scw	іні m	172	154	108x25		
Sch	Eclipse Eclipse	3 :::	10 26	32x 9 54x17		Andrew N. Johnson, Chicago, III. J. M. Fitzpatrick, Escanaba, Mich.
Str	Eddy, Charles A2075 Eddy, John F1678	2075	1552 1252	281x40 259x37	1889 1886	J. C. Gilchrist, Cleveland, O. Tonawanda N. V. Tonawanda I. & S. Co. North Tonawanda N. V.
Str	‡Eddy, Šelwyn	2846	2164	343×42	1893	The Lake Transit Co., H. L. Shaw, Mgr., Bay
Str :	‡Edenborn, Wm5910 Edith 12 Edith See Mannit		4531 3	478x52 60x 8	1900 1900	Pitts W. 1
Bge	Bge Edna	53	40 13	66×18	1904	Hugh Cuthbertson, Algonac, Mich.
Sch	Edith M.	: ^ ;	21-1	32×10	1906	Roy Hall, Ludington, Mich.
Tug. Tug	‡Edna G Edna K.	154	13 64	92 <b>x23</b> 47x12	1896 1903	
Str	Edson, C. R.	40	22	64×15	1889	
Sch	Edwards, J. R.	:: 435 35	413	73×10 175×30	1883	
Str	Edwards, Wm	1272	973.	226x35	1879	
Tug	Effe L.	: :	8	63x17	1875	

1907 Lackawanna Steamship Co., Buffalo, N. Y. 1900 H. F. Hanrath, Frankfort, Mich. 1908 Frank Belvall Defour Mich.	1903 Clifton B. Todd, Cheboygan, Mich. 1885 Tonawanda Barge Line, Chas. Weston, Mngr., N. Tonawanda N. V.	1896 Rochester R. Pitts. C. Co., Buffalo, N. Y. Out		1900 Wm. S. Webb, Shelburne, Vt. 1903 Spencer Kellogg, Buffalo, N. Y.			-	92 E. M. Bowman, Niagara Falls, N. Y.		1882 David F. Doville, Toledo, O.		Fresident, Milwaukee, Wis. 98 Geo. C. Boldt. Alexandria Bay. N. Y.	96 Charles Platz, Rogers City, Mich.	1882 D. J. Martin, St. James, Mich. 1902 Fire Dept. Detroit Mich.	00 Pittsburg Steamship Co., Cleveland, O.	1897 Daniel Elliott, Erie, Pa.	1882 Standard Contracting Co., Cleveland, O.		89 J. C. Gilchrist, Cleveland, O.	1901 G. A. Tomlinson, Duluth, Minn. R. W. Parker, Erie, Pa.	
	40×14 19 161×32 18	154×34 18		$123 \times 18  19 \\ 105 \times 16  19$						56×12 18 08×27 18				50×12 18 110×25 19			60x16 18			430x52 19 34x11 R	
•	•											<b>∞</b>	22.2	3 =	478					4	
3621 8 11	400	502	8	38	282 828	, 47	82	°83	E 5	102	194	73	ន្ទ	114	4526	<sub>ස</sub> :	5 5	38	176	3967 10	
4963	14	ora 225		Elfrida 146 Elgrudor 103		eth 7	Elizabeth G 24			Ella G 115	•	67	Ellen Gertrude 14	Elliott, Clara A 21 Elliott, Tames R 210		Elma 29	• • • • • • • • • • • • • • • • • • • •	e, C. W	ce, C. W 2046	Helphicke, Mary C. 4998 Elsa	
Str ‡Elba Gas Elbe . Sch Elda	Sch Elda Sch Eleanor	Bge Fleanora	•	Sty Elirida Sty Elgrudor	Elida Flira	•		띛띛	Ella	Str Ella Dge Ella G				Tug Elliott, F. B. Elliott.	-		Tug Elmer	•	Str Elphick	Str ‡Elphick Sch Elsa	

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CLASS.	VESSEL.	Gross Net Tonnage Tonnage	Net	Keel Bram	Year	. NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Elsa M.	14	-	41x11	1893	A. Allen, Sturgeon Bay, Wis.
Gas	Elsie Marie	15	14	35x10		Ida J. Williams, Milwaukee, Wis.
St.	Elsie Nell	: 4:	88	62×16	1901	Wm. Smith & Co., Waukegan, Ill.
	Elva		3	70x18	288 288 288 288 288 288 288 288 288 288	George T. Arnold, Mackinac Island, Mich.
Tug	E W B A	:: 34	32	80×19	202	Emanuel Hallgren, Marinette, Wis.
	Emerald	٠.	181	140×30	1871	Anthony T. May. 397 Champlain st., Detroit
Tug	Emerson, Geo	: 8	17	61x15		Lake Superior Dredging Co., Duluth, Minn.
Ŋ.	Emery, Temple .		11	83x50		W. L. Martin, Cheboygan, Mich.
N Ch	Emily 1. Fries		`€	38x14		V. J. Thays, Green Bay, Wis.
St.	Emily L		∞	44×11	1893	L. C. Ludwig, Cincago, III. John Himmel Green Bay Wis
Gas	Emma		0	46×12	1902	William H. Leos. Suttons Bay. Mich.
SIp	Emma D	:		46x16	1890	O. Patterson, Alexandria Bay, N. Y
	Emmet, Robert			65x16	1863	Chas. Leihy, Bayfield, Wis.
	‡Empire City4	4118		406×48	1894	Pittsburg Steamship Co., Cleveland, O.
	Empire State			212×32	1862	Philip Schnorbach, Muskegon, Mich.
	Endress, C. W			86x20	1898	C. E. Ainsworth, Sault Ste. Marie, Mich.
Str	Engel, Wm.	47	3	63×17	1901	M. J. Barnett, Kenosha, Wis.
Str	Frigiand, K. W	} 889 •		36ZX5U	4021 4031	W T Country II Joseph St., Cleveland, U.
in Si	Enos, Jessie	: 314	3,4	121×40	100	K R R Know Duluth Minn
Tug		21		50×14	1888	Evalene B. Dahlke, Cleveland, O.
Str	†Ericsson, John	ຕ		390×48	1896	Pittsburg Steamship Co., Cleveland, O.
	Erie	:		$60 \times 16$	1897	Great Lakes Dredge & Dock Co., Chicago.
Str	Erie	ಷ :	<b>9</b> ;	56×14	888	J. M. Bell, Port Clinton, O.
	Erie	≅ ≅ :	9 5 2 5	57x14	1907	Simon Schacht, Erie, Pa.
	trie	₹;	8	124x28	200	George Berriman, Erie, Pa.
2 1 1	Free F D	14	702	51X15	1003	Geo. D. Ivau, Green Bay, Wis.
Tug	Esser, Mart H	•	5 65	57x14	1900	Hanry Coundy, Cieveland, O. Henry Burg Frie Pa
			ì		, }	

905. cago, III. sh, Wis.	Island, C.	Choate,
Thomas M. Hadeock, Buffalo, N. Y. Ernst Knack, Milwaukee, Wis. D. H. Goodwin, Toledo, O. Rebuilt 1905. C. P. Redfield, Hartford, Conn. Henry F. Hanford, Marquette, Mich. Dunham Towing & Wrecking Co., Chicago, III. W. W. Hinton, Two Rivers, Wis. Co-Operative Coal & Ice Co., Oshkosh, Wis. O. W. Osmondson, Chicago, III. W. J. Hackett, Cape Vincent, N. Y. Emil Ewig, Port Washington, Wis. D., B. I. & W. F. Co., Detroit, Mich. Great Lakes Towing Co., Cleveland, O. Western Stone Co., Chicago, III. Gilbert Yax, Allgonac, Mich. Shannon & Garey, Saginaw, Mich. Mich. Sullivan, Buffalo, N. Y.	Great Lakes Towing Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Grand Island Steamship Co., Grand Mich. Geo. Maul, Port Clinton, O. H. A. Blume, Duluth, Mirn. Morris Alperu, Alpena, Mich. U. S. Engineer Dept., Washington, D.	Nicholas Larson, wankegan, III. Beaubien Ice & Coal Co., Detroit, Mich. W. H. Follette, Tonawanda, N. Y. M. B. Johnson, Ashland, Wis. Oshkosh Steamboat Co., Leander Pres., Oshkosh, Wis.
1887 1901 1875 1903 1884 1876 1883 1905 1892 1889 1889 1889 1889 1889 1889 1889		1881 1889 1889 1881
95×17 98×10 98×10 74×10 59×13 82×13 82×12 45×12 124×29 69×14 70×16 116×29 104×18	70x19 424x45 174x31 174x31 90x16 45x12 41x12 54x12	26x 8 44x12 212x35 64x16 94x24
108 101 117 1150 128 838 838 838 644 648 533 838 838 838	35 3181 693 60 60 10	997 26 94
Cbt         Esther         137           Str         Esther         15           Sty         Ethel         23           Sty         Ethel         22           Tug         Evans,         J. C.         79           Tug         Evans,         J. J.         14           Str         Evelyn         150         62           Gas         Evening         Str         Ewel           Str         Ewel         Frank         62           Str         Excelsior         229           Excelsior         229         Excelsior         92           Sch         Excelsior         56         Excelsior         56           Sch         Exile         56         Sch           Sch         Exile         56		Sty Farragut
OWMMANHAGONANHAWAM	LNN NHON	ນພູດເດ

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CLABS.	VESSEL.	Gross Net	Net	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MAKAGER.
Sch Scw	Fassett, Theo. S Faugh-a-Ballagh	548 139	<b>521</b> 139	186x31 64x26	1881 1891	Tonawanda I. & S. Co., N. Tonawanda, N. Y. Dunbar & Sullivan Dredging Co., Buffalo,
Str Tug Sch Tug Tug	Faustin EFavorite Favorite Favorite Favorite Faworite	256 .1223 451 409 24	166 691 434 351 6 16	122x24 180x43 166x31 139x28 47x11 60x10	1882 1907 1863 1864 1894	John N. Mullen, Windsor, Ont. Great Lakes Towing Co., Cleveland, O. Butler Bros. & Hoff Co., Detroit, Mich. Great Lakes Towing Co., Cleveland, O. Franc Parsons, Vermillion, O. Edmund Lehmann, Appleton, Wis.
116 120 140 170 116 116	Fearless Fearless Fearless Fearless Felicitous Ferguson, David Ferry, Col. Ferry, Aul. N. H.	165 28 216 223 171	156 17 77 205 212 9 162	120x24 59x14 99x17 117x26 130x26 42x12 117x24 53x13		H. Williamson, Racine, Wis. E. A. Sonneman, Sheboygan, Wis. A. R. Goode, Chicago, Ill. J. M. Clow, Marinette, Wis. A. Trudo, Box 336, Bay City, Mich. N. Campbell, Muskegon, Mich. Halvor Williamson, Racine, Wis. Tosen B. Renning St. Tosenh Mich.
Tug Sch Sch F.B.	Field, O. M. Filer, D. L. Filer, Grace M.: Fillmore, Clarence J. Fire Queen		17 339 225 389 9	57x13 156x30 128x27 161x31 63x16		i. , Mich.
Tug Tug Tug Sch Sch	Fischer Fischer, S. M. Fisher, Geo. E. Fisherman Fish, Nelson W. Fitch, Wm. F.	628 25 25 18 108	427 18 9 101 2632	37x 9 139x31 64x16 54x12 99x22 346x48	1890 1883 1883 1903 1903	John T. Cunningham, Buffalo, N. Y. L. M. C. F. Trans. Co., Milwaukee. Wis. A. & L. B. Dohlmer, Dunkirk, N. Y. Joseph Valentine, Hammond, Mich. Nelson W. Fisk, Fisk, Vt. Franklin Trans. Co., J. S. Ashley, Sec., Cleveland Ohio.

1887 George B. Taylor, Erie, Pa. 1906 Chicago Nav. Co., D. Sullivan, Mgr., Chicago, 111.	1901 Calumet Trans. Co., J. S. Ashley, Sec., Cleveland. O.	1887 Tonawanda I. & S. Co., N. Tonawanda, N. Y.			Frank R. Gilchrist, Cleveland, O.	1875 Saginaw Valley S. S. Co., Saginaw, Mich.	1886 Charles Paull, South Haven, Mich.	1869 George Hefferan, Grand Rapids, Mich.				1887 Milwaukee S. S. Co., David Vance, Mngr., Mil-		1892 A. Nunn, Thousand Island Park, N. Y.	≥		1893 Fire Department, Milwaukee, Wis.			1901 Merinda Steamship Co., Frank R. Gilchrist,	Sec'y, Cleveland, O.	1886 O. O. Hanke, Saugatuck, Mich. Out of Com.				1872 Lars H. Jensen, Sturgeon Bay, Wis.			_	1895 Edgewater Lighterage Co., Buffalo, N. Y.	
256x38 420x52	332×42	265×40	161×32	218x37	167×34	174x27	29×10	71x14	30x	58×15	41×12	264×38	;	40×12	$38 \times 10$	81x18	:	$187 \times 33$	$172 \times 32$	344×46		51×15	$104 \times 29$	$67 \times 18$	79x24	$134 \times 26$	$262 \times 39$	46×15	38×11	89×17	
1175 3701	2128	1175	314	8	474	455	9	E ,	ဂ	16	=	1165	;	2	2	40	:		363			8	108	19	88	277	1475	19	6	ස	0
Fitzgerald, R. P 1631 Fitzgerald, W. E. 4940	‡Flagg, G. A3062	Fleetwood1687	Fletcher, F. W 495	Flint, Oscar T		Flora	•								Foam		Foley, James	Folsom, A	Ford, J. C	++		Forester, L. B: 21	:		Foster, A 93	Foster, I. N 355	‡Foster, Parks1720	Fournica, Sofie 22	Fox9	Francis, C. H 116	
Str	Str		St			Sta	Cas	St.	V.	Tug	Cas	Str	i	Sip	Scy	Sch	Tug	Str	Str	Str		Sch	Str	Sch	Str	Str	Str	Sch	Gas	Sch	

CLASS.	VESSEL.	Gross	Gross Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch Tug Tug		658 893 893 893 893	625 46 29 18	180x36 74x18 58x14 58x 6 58x 6	1889 1891 1890 1903	1889 Luther P. Graves, Buffalo, N. Y. 1891 Great Lakes Towing Co., Cleveland, O. 1890 Gustave Mollhagen, et al., St. Joseph, Mich. 1903 Nelson C. Tibbitts, Erie, Pa. 1801 F. H. Jones, Vormillion O.
Str Str Str Str	Fred B	3883 3883	3064 46	95x13 47x14 112x20 95x18 356x50 96x18	1889 1900 1888 1903 1884	: HO\ZG¤
Str Sch Sip Str	#Frick, H. C 6490 #Fritz, John 4693 Frolic 2003 #Frontenac 2003	6490 4693 10 2003	5016 4447 9 1676	549x56 436x50 40x11 270x40	$\begin{array}{c} 1905 \\ 1898 \\ 1884 \\ 1889 \end{array}$	Pitts Pitts Pete Grat
Str Tug Str Sch	Frontenac 626 Frost, E. E 10 Fryer, Robert L1810 Fryer, Robert L 527	$\begin{array}{c} 626 \\ 10 \\ 1810 \\ 527 \end{array}$	479 7 1451 501	169x26 37x11 281x41 175x33	1868 1885 1888 1880	H. ( John Mite Kall
Str Sty Sty Str	Fuller	13 25 81	9 18 18 3181	41x12 49x 9 58x10 424x45	1889 1889 1888 1896	cago, 111. Wm. T. Brown, St. Clair, Mich. C. M. Farrar, Buffalo, N. Y. Miss Jennie Tracey, Buffalo, N. Y. Pittsburg Steamship Co., Cleveland, O.
Str Str Sty	Gadabout	18 157	<b>1</b> 18 106	47x 9 48x12 128x17	1892 1874 1906	1892 Geo. A. Kennedy, Syracuse, N. Y. 1874 John Leaf, Marinette, Wis. 1906 E. L. Ford, Detroit, Mich.

Mich.	a, N. Y.	oh. N. Y.
E. G. Jackson, Winneconne, Wis. Thomas W. Jordan, Buffalo, N. Y. S. A. Ross, Erie, Pa. Abandoned. Pittsburg Steamship Co., Cleveland, O. W. Baker, New Baltimore, Mich. D., B. I. & W. Ferry Co., Detroit, Mich. J. C. Gilchrist, Cleveland, O. Pittsburg Steamship Co., Cleveland, O. M. Sicken, Marine City, Mich. Mitchell & Co., Cleveland, O. Robert H. Luckes, Sault Ste. Marie,	Hugh R. Havey, Detroit, Minn. Hugh R. Havey, Detroit, Mich. G. C. Geiken, Charlevoix, Mich. St. Lawrence River Power Co., J. A. Montague, Traverse City, Alton B. Tyler, Dunkirk, N. Y. Beril Benowitz, Buffallo, N. Y. Tae S. Watern Pochester, N. V.	Great Lakes Towing Co., Cirveland, O. Lake Erie Dredging Co., Buffalo, N. Y. Fred. Matchel, Chicago. Ill. John W. Robinson, N. Tonawanda, N. Y. Embury-Martin Co., Indian River, Mich. M. J. Galvin, Buffalo, N. Y. Goodrich Trans. Co., Duluth, Minn. L. G. Schiller, Green Bay, Wis. Atlantic Coast S. S. Co., Niagara Falls, N. Y. Bense Fish Co., Port Clinton, O. Jerry Driscoll, Erie, Pa. Pittsburg Steamship Co., Cleveland, O. Thos. Isabell, Sturgeon Bay, Wis.
1903 1906 1881 1905 1869 1906 1900 1900 1872 1872 1878	• • • • •	1900 1890 1874 1874 1887 1900 1890 1890 1890
43x 9 54x15 55x12 559x56 78x24 107x29 540x54 478x52 arbray. 170x31 416x31	124x23 145x29 69x15 70x18 44x13 88x10 30x 9	17.5.2 55.x15 33.x10 1188.x34 47.x11 200.x35 195.x34 92.x21 62.x14 41.x11 296.x40
12 10 18 18 83 83 171 171 4440 11ix Ci	336 28 28 15 10 10	100 100 100 100 100 100 100 100 100 100
Galatea 18 Galivan, C. W 12 Ganges 22 ‡Garey, E. H 6331 Garibaldi 88 Garland 248 ‡Garretson, Gen 6765 ‡Gares, John W 5946 Gault, John C. See Fe Gawn, Thomas 549 ‡Gayley, James 549	Gazelle 87  h Gebhardt, A. 354  g Geiken, Frank P. 62  Gem 15  g Gem 15  g Gem 14  t Gem 7	g General 132 g Genevieve 182 f Genevieve 77 h Genoa 7780 g George E. 16 h Georger, F. A. 825 h Georgia 895
Gyt Gas Str Str Str Str Str Str Str Str Str Str	Partition of	Tug Tug Siy Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch

NAME AND ADDRESS OF OWNER OR MANAGER.	Walter S. Lloyd, Duluth, Minn. Alger Smith & Co., Detroit, Mich. Bay Gity, Mich. Davidson Steamship Co., Duluth, Minn. M. H. Quick, Manistique, Mich. Pittsburg Steamship Co., Cleveland, O. J. C. Gilchrist, Duluth, Minn. Bedward Gillen, D. D. & C. Co., Racine, Wis. Eake Superior Dred. Co., Duluth, Minn. Chas. W. Hirt, Erie, Pa. Duluth-Superior Dredging Co, Duluth, Minn. M. Sullivan, Buffalo, N. Y. M. A. Bradley, Cleveland, O. Rebuilt 1901. D. C. Cregier, Chicago, Ill. W. H. Rees, Clayton, N. Y. Homer Adams, Saugatuck, Mich. Mary Ida Kilby, Sault Ste. Marie, Mich. Dunkley-Williams Co., So. Haven, Mich. Dunkley-Williams, Mary Cherenan, Milwaukee, Wis. Henry McMorran, Port Huron, Mich. Conrad Niederman, Milwaukee, Wis. W. C. Richardson, Mngr., Cleveland, O. Mary J. Christian, Rochester, N. Y.
Vear Built	1887 1887 1889 1893 1901 1903 1903 1903 1903 1897 1889 1889 1889 1889 1889 1889 1889
K cel Beam	50x 9 208x35 57x18 36x13 36x13 30x13 30x13 30x14 416x50 416x50 416x50 416x50 416x50 416x50 416x50 115x23 54x15 54x15 54x15 36x13 36x13 36x11 115x22 38x30 38x11 52x14 17x34 52x14
Gross Net Tonnage Tonnage	102 464 144 144 144 148 283 283 282 282 613 14 16 19 19 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10
Gross Fonnage	12 837 837 10 63 2820 871 871 872 874 613 876 877 877 877 877 877 877 877 877 877
VESSEL.	Gertrude Getysburg Geyser Giant Gifford Gifford Gifford Gillbert, W. H. Gilchrist, Frank W. Gillen, Alice M. Gillen, Alice M. Gillent, M. J. Gillent, F. W. Gillent, F. W. Gladiator Gladiator Gladiator Gladiator Gladiator Gladiator Gladiator Gladiator Gloriana Gloriana Gloriana Gloriana Gloriana Godfrey, Jeremiah Godfrey, Jeremiah Godfrey, L. B. Gogebic Golden Age Golden
OLASS.	Str. Tug Sch. Str. Str. Tug Sch. Str. Str. Str. Str. Str. Str. Str. Str

o .	evorx, Mich. Abandoned. Harbor, Wis. yne City, Wis. Buffalo, N. Y. Bay City, Mich. kfort. Mich. oit, Mich. oit, Mich. or You City, Mich. eveland, O. Co., Cleveland, O. Co., Cleveland, O. Co., Cleveland, O. Io, N. Y.	George Waters, Jr., Franktort, Mich.  Mary Goodlet, Washington Harbor, Wis.  E. A. Graham, Lincoln, Mich.  Seither Transit Co., 11 Joseph st., Cleveland, O.  James Davidson, W. Bay City, Mich.  James Davidson, W. Bay City, Mich.  Henry T. Heald, Grand Rapids, Mich.
1867 Pittsburg Coal Co., Cleveland, 1903 Jos. Nevien, W. Bay City, Mich. 1895 H. T. Dunbar, Buffalo, N. Y. 1893 R. J. Cram, Detroit, Mich. 1899 Penna. Fishing Co., Eric, Pa. 1895 Geo, Moon, Jr., Buffalo, N. Y. 1902 Mitchell & Co., Cleveland, O.	1861 Louis Guard, Charlevors, Mich. Abar 1864 Niels Jepsen, Detroit Harbor, Wis. 1865 Ch. H. Atherton, Boyne City, Mich. 1892 Charles E. Williams, Buffalo, N. Y. 1866 O. W. Blodgett, W. Bay City, Mich. 1906 O. Pederson, Frankfort. Mich. 1875 John D. Baker, Detroit, Mich. 1875 John D. Baker, Detroit, Mich. 1876 Thos. L. Handy, Bay City, Mich. 1896 Thos. L. Handy, Bay City, Mich. 1906 H. B. Hawgood, Cleveland, O. 1889 Great Lakes Towing Co., Cleveland, O. 1889 Rutland Trans. Co., Ogdensburg, N. Y. 1880 Ranson Lewis, Buffalo, N. Y. 1881 Edward D. Stair, Detroit, Mich. 1892 Willoughby Meisner, Dunkirk, N. Y. 1898 John Hendrick, Oswego, N. Y. 1993 H. Christiansen, Duluth, Minn.	1906 George Waters, Jr., Franktort, Mich. 1867 Mary Goodlet, Washington Harbor, Wis. 1879 E. A. Graham, Lincoln, Mich. 1902 Seither Transit Co., 11 Joseph st., Cleve 1884 James Davidson, W. Bay City, Mich. 1895 James Davidson, W. Bay City, Mich. 1895 Henry T. Heald, Grand Rapids, Mich.
189x31 38x14 88x25 45x16 48x13 65x17 416x50	74×14 77×16 103×23 69×20 180×32 28× 8 137×28 265×40 78×23 78×23 78×23 275×55 78×23 78×24 78×24 78×24 78×25 78×26 78×2	38x 9 74x19 95x16 434x48 218x38 247x40 134x28
	202 202 35 461 7 7 7 7 1730 1730 1730 108 269 269 28 28 27 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	. 58 91 9703 802 1643 149
Sch Golden Rule 363 Sch Gold Leaf 13 Bge Gold Standard 222 Sch Goodenough 16 Tug Goodill, Robert E 17 Bge Goodwill 65 Str ‡Goodyear, Frank H.4815	Gorden, Joseph  Gordon, Cynthia  Gordon, R. J.  Gordan, Pete  Goshawk  Goshawk  Gould, E. F.  Gould, Jay  Gould, H. D.  Goulder, H. D.  Goulder, H. D.  Gowanda  Gowanda  Grace  Grace  Grace  Grace	Gas Grace W
W M H W M W W		Sch Sch Sch Sch Sch

	Mil-			), III.		II.			ئے					Ş	1906.
	Grand Trunk Milwaukee Car Ferry Co., Mil	wankee, wis. Mrs. Wm. Freyensee, Sandusky, O. Cleveland Dredge & Dock Co., Cleveland, O. Stranded		onn Muchell, Cleveland, O. Chicago, Ill Chicago & Duluth Transp. Co., Chicago, Ill Frederick Keller Deteur Mich	4	cago,	John O'Neill, Charlevoix, Mich. Thos. McIntyre, Oswego, N. Y.	<u>د:</u> 0	III. Mich.			_		0:	11 <b>1</b> 12
NAME AND ADDRESS OF OWNER OR MANAGER.	Ferry	waukee, wis. Mrs. Wm. Freyensee, Sandusky, O. Cleveland Dredge & Dock Co., Cleve	Wis. Y.	D	Silas Brown, Bois Blanc Island, Mich.	da. Ch		Micland.	Erie & Mich. Ry Nav. Co., Chicago, Il Eliza J. Ludwig, Benton Harbor, 1		, K	John Hewitt, Chicago, III.	Mich.	Great Lakes Towing Co., Cleveland, O.	IM. A. Bradley, Cleveland, O. Kebuilt C. D. Miller, Poughkeepsie, N. Y.
R OR M	Car	ndus k Co.	ette.	ر دون د	land,	ck Co	Mich.	Sena, Clevel	H. Ha	Mich. Mich	alo, N	11.	on,	Cle	j X.
F OWNE	ukee	Se, Sa	farin uffalo	Trans	inc Is	& Do	ego, N	Y.S	sento	roit.	Buff	go, I	: Hui Detr	ී.	eland eepsie
0 8 1 8 9 0	Milwa	ıs. yense Ige &	on, N	Lith	is Bl	edge	harley	olmes win⊭	y Na	, Det	  	Chica	Port	wing	Ciev oughk
тир Арі	unk ]	waukee, wis. Wm. Freye eland Dredge Stranded	Wilber Anderson, Marinette, Wis. Buffalo Fire Dept., Buffalo, N. Y.	John Mitchell, Cleveland, O. Chicago & Duluth Transp. Co	'm, Bc	es Dr	eill, C ntyre,	H. es To	ich. R Ludw	White Star Line, Detroit, Mich. loseph H. Berry, Detroit, Mich.	Western Transit Co., Buffalo, N.	vitt,	cMorran, Port Huron, Mich W. Kotcher, Detroit, Mich	tes To	M. A. Bradley, Cleveland, O. C. D. Miller, Poughkeepsie, N. Y.
NAME	ıd Tr	waukee, v . Wm. Fr reland Dre Stranded	ser A	ago d	Brow	t Lak W. I	O'N.	ge F t Lak	å. ™J.	te Sta oh H.	tern T	He	McM W	Lag	A. Mill
	Grai			30,	10,0								_		
Year Built	1903	189 <b>3</b> 1867	1900	1893 1876	1875	1896	1874	1875 1881	1887 1875	1902 1867	1885	1907	1873 1868	1893	1898 1890
Keel Beam	306x54	59×16 165×32	127×26 106×24	416x50 328x42 54x13	39×11	72x20 197x33	48×11 95×17	$90 \times 27$	155×30 84×23	300x38 241x33	133×31	45×13	112×22 137×26	68x18	281x40 82x 9
Gross Net Tonnage Tonnage	1678	<del>33</del>	194	2202 2203 2303	13	349	21.5	88	<b>₹</b> 8	748 313	277 1596	14	69 75 75	8 2	8 8 8
Gross	2320	47	202	2818 2818	. <del>1</del>	67 67 67 67	37	88	. 523	1392 621	290		139	56	74 83 84 84
	2320	47 Villiam 464		. H.		H,	~		Ą				۵		
Hr.	aven	#Grandon Grandy, William	Grant, Levi	#Gratwick, W. H 4776 #Gratwick, Wm. H.2818 Granling		Green, Andrew H.	G. R.	Green, J. L. Green, O. B.	Greene, M. T. Gregory, Mary	: : g g	Grey Oak	Grimsby	Groh, Mary Grover, Anna P.	Cris	Grover, M. B Gryphon
VESSEL.	H Pu	ndon ıdy, \	nt, I ttan,	Gratwick Gratwick	Grayling	Green, Argreen, C.	Green, G	Green, J. I.	Greene, M Gregory,	#Greyhound Greyhound	Grey Oak	msby	h, M.	Grover,	Gryphon
	Str ‡Grand Haven .	• •	Bge Grant, L. F. B. Grattan,	Str +Gratwick, W. H Str +Gratwick, Wm.	•			_		++	+-	ŀ	_	_	_
CLASS.	Str	Str Sch	Bge F. B	Str	Sch	Tug	Tug	Sch	Sch	Stp Bge	Bg	Gas	S. Kr	Tug	Str

John Campbell, Port Huron, Mich.	Fish Co., Cleveland, O.	alsma et al., Grand Haven, Mich.	. Cornell, Detroit Harbor, Wis.	aglesfield, Grand Rapids, Mich.	awson, Oshkosh, Wis.	A. Alger, Jr., Detroit, Mich.
1856 John Car	1900 Ranney	1892 John W	1893 John W	1895 P. R. E.	1898 David L	1905 Russell
114×24						
129						
135						
Guido	Gull	Gunderson Bros	Gust, Henry	Guy, Lulu	Gypsy	Gypsy Joe
Sch	Sts	Str	Str	Sch	Yly	Ş

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	27 1868 Win Schlosser, Milwaukee, Wis.	ago, Ill.						ago, III.		Form-				1881 Dunham Towing & Wrecking Co., Chicago,		Ħ			Mich.		Frank J. Haynes, Port Huron, Mich. Burned	
		, Chic			'n.	Υ.		., Chic		z.		Wis.		Š		hicago,			etroit,	1890 J. C. Gilchrist, Cleveland.	Mich.	Mich.
	Wis.	ng Co.	Wis.	×.	t, Mic	z	o, III.	ng Co	Minn.	sburg,	i	towoc,	nd, O	king		1 st., C	Ċţ.	rs, Wi	st. D		ıron, 1	, City,
	aukee,	Vrecki	aukee,	ż	Detroit	ria Ba	Chicag	Vrecki	luth,	Ogdens	,	Mani	Clevela	Wred		herman	York	o Rive	6 15th	put	ort H1	est Bay
	, Milw	ng&koV	Milw	Buffalo	ker, ]	lexand		ng & V	'n, Du	ပိ	uke.	ınsen,	irist. (	ing &		လ (၁	. New	e. Tw	el, 132	Clevel	nes, Po	en, W
	losser	Towi	Meyer,	astle,	. Hec	old, A	Trans.	Towi	Johnso	II Coal	erly Iron Duke.	Christia	. Gilel	Tow		bick &	nnings	Luebk	ckleste	christ,	. Hayı	ormahl
	'in Sch	unham	phia l	R. C	rank ]	Gotsh	oward	unham	Ή	30. Ha	erly	Ď.	ank R	unham	Ξ	A. Cal	ank Je	егтап	E. Si	C. Gil	ank J	Wm. Thormahlen, West Bay City, Mich.
	898	74 D	72 Sc	ပ (၂	至 20	38 F	74 H	25 CD	83 ⊠	81 G		% Ω	88 F	81 D		73 J	85 Fr	H 69	⊠ 69	.60 J	28 王	1901 W
	82	<b>2</b>	82	œ.	5	22	82	28	28	82												
	$124 \times 27$	$62 \times 16$	$67 \times 16$	94×17	125×18	61×18	$138 \times 26$	$67 \times 16$	45×11	$212 \times 35$		$91 \times 22$	$161 \times 30$	58×16	:	171×33	95x17	55x14	$137 \times 26$	265×41	$60 \times 15$	40x14
ina.	197	Z	21	6	109	62	309	32	∞	<b>3</b> 65		95	<b>34</b> 2	24					312		17	Ξ
Carol	<b>202</b>	45	<b>4</b> 2	125	161	62	326	2	14	1152		100	447	84		496	113	83	329	2122	\$	13
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#Hack	Sch Hackley, C. H 207 197	Hack	Hage	Haine	Halc	Halcy	Hale,	Hall,	Hall,	Hall, Henry B1152		Hall,	Hall,	Halladay, Chas 48		Halst	Hamp	Hamı	Hami	Hand,	g Hand, Geo. R 34	Hand
Str	Sch	Tug	Tug	Scb	Sty	Bge	Ľ	Tug	Str	Str		Sch	Str	Tug		Sch	ප්	Str	Sch	Str	Tug	Sch

CLASS. VESETL.		Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAKE AND ADDRESS OF OWNER OR MANAGER.
Dge Hand, Andy	dy 471	1 422	95x44	1905	1905 Dunbar & Sullivan Dredging Co., Buffalo,
• •	R 7023	3 5491	532x56	1906	1906 Pioneer Steamship Co., Cleveland, O.
Str +Hanna, Howard M Jr.,	noward M.	:	480x54		1908 Hanna Transit Co., W. C. Richardson, Mgr.,
Str ‡Hanna, L.	‡Hanna, L. C6356	6 4922	504×54	1905	Mahoning S. S. Co., J. S. Ashley, Mgr., Cleve-
Str ‡Hanna, M.	‡Hanna, M. A4661 Hanscom, Belle, 294	1 3116	410×50 139×27	1899	1899 Mitchell & Co., Cleveland, O. 1874 Reid Wrecking Co. Port Huron Mich
Happy Ho	me 40		42×14	1896	Felix Benito, Raber, Mich. Rebuilt 1905.
#Harding	Abner C. 98	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	74x20	1907	Junes A. Willey, Moderately, M. 1. Great Labor, Diving Co., Cleveland, O. H. I. Pauly, Divinth, Min.
Harlem	200	3 22	43x13	86	George A. W. Willer, Buffallo, N. Y.
	572	485 482	59×12 193×35	<u>ĕ</u> 8	N. & B. Mills, Marysville, Mich. W. J. Harlow, Toledo, O. Rebuilt.
Sch Harold	718 1 B		190×34 30× 9	<u>≅</u> ŏ	11 J. A. Calbick, Chicago, III. 12 A. Borg Ludington, Mich
Harold	• -		64×16	161	Frank P. Eichbacher, Erie, Pa.
Str Harper, John Tug Harris, Joe	hn1951	7 1682 33 33	298x40 $72x17$	1890 1873	J. C. Gilchrist, Cleveland, O. Great Lakes Towing Co., Cleveland, O.
Str Harriet L.	•	19 13 ×	58x12	1906	Frank C. Livermore. Pensaukee, Wis.
Tug Harrison, Ben			44x13	1889	Name changed to Whitehaven.
Sch Harrison, Benjamin	-	8 20 80	175×32 71×16	1889 1989	Atlantic Coast S. S. Co., Niagara Falls, N. Y.
	G 84		85x19	1893	A. Booth of Co., Chicago, III.
		470	3/x 6 152x25		William D. Rees, Clayton, N. T. Green Bay Trans. Co., W. C. Shilling, Sec., Green Bay, Wis.

1888 Green Bay Trans. Co., W. C. Shilling, Sec.,	J. C. Gilchrist, Cleveland. O. Sorthwestern Trans. Co., Detroit, Mich. S. Wutuh Winn. Co., G. A. Tomlinson, Mgr., Dulinth Minn.	Pitt Gre Edv Rutl Nor		Minerva Steamship Co., Cleveland, O The Hawgood Transit Co., Cleveland, O. Atlas S. Co., W. A. Hawgood, Pres., Cleve-	John Geo Stur Gib Gib John M. John Hira Wils
	1902 1896 1908	1900 1907 1884 1873 1890	1889 1893 1874 1907	1906 1903 1907	1893 1879 1866 1876 1895 1893 1893 1896 1901 1976 1875
142×30	380x50 352x44 504x58	461x50 72x17 55x13 242x37 165x30 46x14	35x10 72x18 205x34 549x56	532x56 414x50 532x56	63×14 56×15 112×24 134×21 134×21 50×14 137×28 39× 9 86×17 73×18 100×17 504×54
394	3374 3154 4865	4061 51 17 1440 380 19	7 36 874 4939	5389 3386 4910	28 138 82 82 18 220 7 7 45 75 75 79
Str Hart, Fannie C 476	Str #Hart, Frank W 4307 Sch #Hartnell, Geo. E3265 Str #Hartwell, Fred G6223		Sly Hattie B	Str #Hawgood, H'ry A. 6839 Str #Hawgood, H. B4655 Str #Hawgood, Wm. A. 6530	Scy       Hawthorne       29         Tug       Hay, James       35         Scw       Hayes, Dan       145         Stp       Hayes, R. B       164         Tug       Hayes, F. J.       27         Str       Hayel       11         Str       Hazel       66         Bge       H. B.          Stp       Heath, A. R.       48         Stp       Heath, E. H.       99         Str       Hebard, Chas. S. 6221         Str       Hebard, Daniel L.       159

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CLASS.	VESSEL	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER,	
Tug	Hebard, R. H	:: E:39	320	40×11 68×18	1882 1889	Hand & Johnson T. Line, Buffalo, N. Y. Great Lakes Towing Co., Cleveland, O.	ſ
Str	#Hecker, Frank J 4978	4978	3770	442×50	1905	_	
St.	Hecla+Hecla	.1110	606	224×34	1881 1982 1973	Geo. Hall Coal Co., Ogdensburg, N. Y.	
	Heider, John	. 10	9	38x 8	1903		
Şt.	Helen	: 331	<b>4</b> 8	60×11 186×35	1895	$\neg$	
St	Helena2083	2083	1578	275×40	188 188 188 188	2	
Scy	Helene	88 :	28	53×17	1895	-	
Lug	Helm, D. T.	::	228	68x18	1893		
Sch	Helvetia		753	204×35	1873	Edw. Hines Lumber Co.,	
Sch	Hengerer. Wm		66	91×17	186	Hattie E. Kill, Buffalo, N. Y.	
Str	Hennepin		633	208x35	1888	Lake Shore Stone Co., Milwaukee, Wis.	Re-
	Ī				l	built 1902.	
Sty		•	37	59x12	1884		
Age Tr	Henrietta	113	113	126×28 60×14	1879	Chas. K. Maples, Duluth, Minn. M. A. Callachan, Cleveland, O.	
Gas		; :	٥	31×10	198		
Tug	Henry, Charles	52	=	45x12	1880		o.
Dge	Hercules		495 17	115×40 61×14	1904		
Gas	Heron	; ; ;	<b>-</b> 1	46x 8	1903	F. F. Peabody, Chicago, III.	
Tug Z	Hershey, Peter D	1398	1159	42x12 934x36	1889 2892 8902	Patrick Livnan, Ionawanda, N. Y. I. C. Gilchrist, Cleveland, O.	
Tug	Hickler, Clara	• •	-	41×12	£	Hickler Bros., Sault Ste. Marie, Mich.	
Str	Hickler, Pauline	કે ⊆ :	∞ ∝	31x 0	188 200 200 200 200 200 200 200 200 200 2	M. Sullivan, Buttalo, N. Y. A. Holmstrom, Ludington, Mich	
Stp		. 286	166	130×25	1902	St. Paul, Minn.	

1900 Pittsburg Steamship Co, Cleveland, O. 1889 Patrick Chambers, Fish Creek, Wis. 1867 John Schroeder Lumber Co., Milwaukee, Wis. 1901 A. R. Hincklev, Oswego, N. Y. 1893 E. Hines Lumber Co., Chicago, III. 1894 Michael Maher, Erie, Pa. Abandoned. 1889 Marine Nay. Co., Geo. G. Oliver, Secy., Michigan	1893 Edward Michael, Buffalo, N. Y. 1868 Ogdensburg, R. T. Co., Ogdensburg, N. Y. 1873 Stanley B. Smith & Co., Detroit, Mich. 1873 Fred Balow, Michigan City, Ind. 1879 Hugh Mallory, Ontonogan, Mich. 1890 Witchell & Co., Cleveland, O. 1896 George B. Kelly, Chicago, III. (Burned). 1891 Graham & Morton Trans. Co., Chicago, III. 1881 Graham & Morton Trans. Co., Chicago, III. 1881 Tonawanda I. & S. Co., N. Tonawanda, N. Y. 1882 J. R. McCarthy, 159 Obio st., Buffalo, N. Y. 1872 Shannon & Garey, Saginaw, Mich. 1886 G. A. Galloway, Oshkosh, Wis. 1886 Pittsburg Steamship Co., Cleveland, O. 1904 W. A. Hawgood & Co., Cleveland, O. 1904 W. A. Hawgood & Co., Cleveland, O. 1867 Frick Erickson, Racine, Wis. 1886 A. J. Young, Marine City, Mich. 1905 G. A. Tomlinson, Duluth, Minn. 1876 D. E. Stevens and R. Porter. Duluth, Minn. 1876 D. E. Stevens and R. Porter. Duluth, Minn. 1877 D. E. Stevens and R. Chaumont, N. Y. 1889 John B. Hall, Buffalo, N. Y., Name Changed to Patrick Culligan. 1870 Lawrence Brown, et al, Chaumont, N. Y. 1871 Beaubien Ice & Coal Co., Detroit. Mich. 1899 Pittsburg Steamship Co., Cleveland, O.
478x52 58x14 110x26 107x24 203x37 52x13 152x30	74x13 139x26 137x26 48x12 16x15 16x15 16x15 16x30 118x31 118x31 118x30 112x26 1
4578 111 141 177 790 111 273	28 300 10 28 28 29 3091 9 871 597 112 123 124 127 4578 1640 640 640 640 640 640 640 640
Str #Hill, James J6025         Tug Hill, L. P	Sty         Hirondelle         35           Sch         Hoboken         299           Ltr         Hocking         21           Tug         Hoffnung         Bros.         26           Sty         Holdan         Hendr'k         S.4444           Gas         Holdad         Los         10           Sty         Holland         Grace         639           Sch         Holland         Robert         423           Str         Holland, Robert         423           Str         Holland, Robert         423           Str         Hollster         S.         49           Str         Holland, Robert         423           Str         Hollster         272           Str         Holland, Robert         423           Str         Holmes, J. A.         A.         49           Str         Holmes, J. A.         B.         24           Sch         Hoope         C.         24           Str         Hope         C.         T.         155           Str         Hope         Geo. T.         155           Bge         Horn, Clara         40           Str<

CLASS.	VESSEL.	Gross Fonnage	Gross Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch Tug Sch Sch Str 1	Houghton, Geo. G Houghton, H Howard, Lohn P Howard, Kate E ‡Howe, Geo. C	332 210 195 97 96 1550	315 151 97 92 91	137×26 126×27 114×22 96×21 97×21 241×41	1873 1889 1864 1882 1867 1903	L. S. Sullivan, Toledo, O. Lost. H. Houghton, Detroit, Mich. G. A. Tomlinson, Duluth, Minn. Reuben B. Bragg, Port Kent, N. Y. John A. Carlson, Marinette, Wis. Gt. Laskes & St. Lawrence Trans. Co., D. T. Helm Philm Minn
Sch Ltr Ltr Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch		298 1158 1158 1158 114 124 114 114 114 114	283 127 2792 62 62 62 52 10 10 6 7 7 7 7 7 7 7 7 7 7 7 7 7	138x26 1116x25 363x50 63x14 458x52 75x20 43x13 31x11 76x15 120x43	1872 1802 1902 1897 1907 1864 1907 1876 1876 1876 1876 1876	
	Hurd, Joseph L., 459 Hurd, Joseph L., 459 Hurlbut, Chauncey, 1009 Huron 538 Huron 638 Huron City 368 Huster 11 4 Hustler 13 Hutchins'n, Emma C 736 Hutchinson, John M. 99	210 210 210 538 538 1945 368 44 44 44 44 736	4804455	/8x 5 1171x29 1184x32 1113x28 2201x32 2238x42 167x29 54x17 44x11 195x34		1900 R. V. Pierce, Buffalo, N. Y. 1869 Leatham & Smith, Sturgeon Bay, Wis. 1874 Teagan Trans. Co., Detroit, Mich. (Lost). 1893 Cleveland Dredge & Dock Co., Cleveland, O. 1885 Star Cole Co., Detroit, Mich. Nee Darius Cole. 1898 Mutual Transit Co., Buffalo, N. Y. 1867 Mud Lake Lumber Co., Raber, Mich. 1867 Wud Lake Lumber Co., Raber, Mich. 1883 Adolph Roeser, Sister Bay, Wis. 1873 William Strong, Tonawanda, N. Y. 1893 City of Buffalo, N. Y.

Out of com.	it of com.	Out of com.	Out of com		,	Out of	c, Wis.
_	Out		^			ö	,
Hutchinson & Co., Cleveland, O. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N.	Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N.	Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N.		Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo, N. Hughes Bros. & Bangs, Buffalo. N.		1903 Chas. L. Sherrill, Buffalo, N. Y. 1888 R. Houghton, Detroit, Mich. 1888 R. Houghton, Detroit, Mich. 1881 Pittsburg, Coal Co., Cleveland,	1867 C. C. Nelson, Chicago, III. 1900 Ida Vedder, Buffalo, N. Y. 1907 E. Bishop, Ludington, Mich. 1907 John Anderson, Milwaukee, Wis. 1902 Manitowoc Dry Dock Co., Manitowoc, 1887 Charles Lonsby, Mt. Clemens, Mich. 1885 A. C. Mayo, Duluth, Minn. 1891 Ranney Fish Co., Cleveland, O.
346x48				137~33		56×14 85×24 85×24 153×26	121x27 32x10 39x11 31x 9 30x10 43x13 132x28 60x12 54x14
2780 184 183 193	213 178 178	263 263 186	186 186 186 186	3388	Ì	23 209 209 274	161 5 7 8 11 15 146 32 13
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	H. W. Visger, Alexandria Bay, N. Y.  [Ames Fox, Messena, N. Y. C. S. Roberts, Chicago, III. Frank Martinek, Chicago, III. Chicago Fire Dept., Clayton, N. Y. McCormick Harvesting Mach. Co., Chicago, III. W. H. Wallace, Joliet, III. E. J. Dodge, Put-in-Bay, O. E. Jordon, New York City. Joseph Mang, La Salle, N. Y. St. Lawrence River Power Co., Massena, N. Y. Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, Wis. St. Lawrence River Power Co., Massena, N. Y. Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, Wis. St. Lawrence River Power Co., Massena, N. Y. Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, Wis. St. Lawrence River Power Co., Massena, N. Y. Great Lakes Towing Co., Cleveland, O. Herbert L. Thompson, Hammond Bldg., Detroit, Mich. Goodrich Trans. Co., Duluth, Minn. Ogedensburg C. & T. Co., Ogdensburg, N. Y. J. C. Gilchrist, Cleveland, O. Frank Tilley, Milwaukee, Wis.
KAGKB.	y, N. Y.  Ill.  Ill.  V. Y.  Co., Chice  h, Minn.  eveland. O.  eon Bay,  Co., Massen  veland. O.  tri Huron,  Mich.  Wis.  y. N. Y.  nd Bldg.,  h, Minn.  ensburg, N.
OR MA	ch. Y. Y. III.  co. Thicago, III.  com, N. Y. Mach. Co., III.  con, N. Y. Mach. Co., III.  con, Y. O.  con, Y. O.  con, Clevelan  Sturgeon F.  Sturgeon F.  Sturgeon F.  wer Co., M  co., Clevelan  Sturgeon F.  wer Co., M  co., Clevelan  Sturgeon F.  wer Co., M  co., Clevelan  Sturgeon F.  co., Clevelan  co., Clevela
ОЧИЕВ	xandria B  a, N. Y. ago, III. hicago, III. hicago, III. him Mac Clayton, ting Mac liet, III. holy Nork City alle, N. Y  ver Pov river Po
NAME AND ADDRESS OF OWNER OR MANAGER.	H. W. Visger, Alexandria Bay, N. Y. James Fox, Messena, N. Y. C. S. Roberts, Chicago, III. Frank Martinek, Chicago, III. Chicago Fire Dept. Chicago, III. Chicago Fire Dept. Chicago, III. Chicago Fire Dept. Chicago, III. Charles Capron, Cayton, N. Y. McCormick Harvesting Mach. Co., Chica W. H. Wallace, Joliet, III. E. J. Dodge, Put-in-Bay, O. E. J. Dodge, Put-in-Bay, O. Codrich Trans. Co., Duluth, Minn. C. J. Jordon, New York City. Joseph Mang, La Salle, N. Y. St. Lawrence River Power Co., P. Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, N. N. St. Lawrence River Power Co., Massen Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, N. Y. St. Lawrence River Power Co., Massen Great Lakes Towing Co., Cleveland, O. Herbert L. Peterson, Sturgeon Bay, N. St. Lawrence River Power Co., Massen Great Lakes Towing Co., Cleveland, O. Herbert C. Thompson, Hammond Bldg., Mich. W. A. Whitney, W. Superior, Wis. J. F. Easton. Alexandria Bay, N. Y. E. L. Thompson, Hammond Bldg., Mich. Goodrich Trans. Co., Duluth, Minn. Ogelensburg C. & T. Co., Ogdensburg, N. J. C. Gilchrist, Cleveland, O. J. C. Gilchrist, Cleveland, O. Frank Tilley, Milwaukee, Wis.
ADDR	Messes Me
KR AXD	H. W. Visger, Ales ames Fox, Messen Crank Martinek, Chorden Mich. Trank Martinek, Chorden Fire Dept. Charles Capron, C
N	R. W. R. W. S. R. S. S. R. S. S. S. R. S.
Year Built	
Keel Beam	95x15 186x26 186x26 27x 9 47x12 275x40 107x24 75x10 89x19 98x17 42x10 137x8 125x43 125x43 17x11 137x8 17x11 137x8 17x11 17x11 17x11 17x11 17x18 17x11 17x18 17x28 17x11 17x28
Gross Net Tonnage	41 284 36 8 1468 1468 21 43 63 63 63 63 63 63 63 63 63 6
Gross	57 58 88 16 16 16 17 17 17 17 17 17 17 17 17 17
VESSEL.	rild rild rild ris ris rial
	Idler Illino Ill
CLASS	Sty Sty Str Tug Str Tug Str Tug Str Tug Str Tug Str Dge Str Tug Str Str Dge Str

1893 George W. Jackson, Chicago, III. 1903 E. H. Hayes, Chicago, III. 1895 F. H. Payne, Erie, Pa.	9 1866 William Williamson, Manitowoc, Wis. 1892 H. C. Derksen, Oshkosh, Wis. 1880 W. J. Willoughby, Huron, O. 1874 Guy White, Buffalo, N. Y. 1881 J. C. Pringle, St. Clair, Mich.	1887 O. G. & G. W. Donaldson, Buffalo, N. Y. 1887 Jno. Hoadley. Alexandria Bay, N. Y. 1902 Thomas T. Smith, Park Ridge, III. 1894 A. B. Ballou, Chicago, III. 1904 Isabella Lincoln, Alpena, Mich. 1905 A. W. & W. B. Comstock, Alpena, Mich. 1905 Canal Lincol Stometrick, Alpena, Mich. 1905 Canal Lincol Stometrick, Alpena, Mich.	Mich.  1879 A. A. Holmes, Alexandria Bay, N. Y. 1871 Thousand Isl. Sibt. Co., Cape Vincent, N. Y. 1885 Geo. T. Arnold, Mackinac, Mich. 1895 P. Pearo, Isle La Motrie. Vt. 2 1889 John J. Boland, Buffalo, N. Y. 7 1883 Western Stone Co., Chicago, Ill. 1901 Walter H. Oades, Detroit, Mich.
85 : 95 85 189 189 189 189 189 189 189 189 189 189	281 281 281 281 281 281	1881 1881 1909 1909 1909 1909	189 189 189 189 188 190
46x12 31x18 30x10 47x15	74x11 51x11 226x3 187x36 212x36	13.1.2.2.3.8.8.10.10.10.10.10.10.10.10.10.10.10.10.10.	100x20 425x20 114x23 60x13 48x11 289x42 96x17
r, -5	21 21 967 615 1077	1321 1223 10 11 11 5 29 29 15	65 59 174 135 1735 67
Str         Irene         10           Gas         Irene         R.         9           Sip         Iris         7           Gas         Iris         12	Sch Iris       62         Sty Irma       30         Str Iron Age       1114         Sch Iron City       648         Sch Iron City       648         Sch Iron City       648         Str Iron Dilke       648	Sch   Iron Queen   1384     Str   Iron King   1702     Str   Wonder   16     Sly   Iroquois   11     Gas   Irving   6     Tug   Isabella   43     Tug   Ishell   Wayne   31     Str   Ishoming   6	Island Belle Islander Islander Islander Isle La Motte Boy Italia I and M. C.

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Sch Jackson, G. K. .... 400 880 163x31 1882 Mershon, Schuette, Parker & Co., Saginaw, Mich.

Tug Jackson, Rose ..... 35 17 63x14 1881 Great Lakes Dredge & Dock Co., Chicago, III.

CLASS.	VESEL.	Gross Net Tonnage Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER
<u> </u>	Japan 1239 Jean 28		932 19	210x32 71x10	1871 1897 1893	71 E. & W. T. Co., Anchor Line, Buffalo, N. Y. 37 Thos. A. Gillespie, New York. 33 T. I. Doornhein Chicago III
J	Jeffrey, J. H., Jr. 12 Tenkins, Chas. O., 6285	12	6	41×12 504×54	1892	Wm. Jeffrey, Duluth, Minn. Jenkins S. S. Co. Cleveland O.
. <del></del> .	tjenks, J. M4644	4644	3381	414x50	1902	W. A. Hawgood, Cleveland, O. W. Pledand, Brancher, With
ار ب		, o	, ∞ 6	30x 9	1901	J. Gustofson, Ludington, Mich.
<b>→</b>	Jennings, Alida J.	116 . <b>34</b> 22	3580 3580	95x17 366x46	1887 1897	Frank Jennings, New York, N. Y. Pittsburg Steamship Co., Cleveland, O.
_ر.		16	25	39x 7	1886	Cook & Brown Lime Co.
-,			12	42x15	1885	
٦,	Johnson, C. J	•	6	99x16	1887	
	Johnson, H. W.	223 220	165	93x25	1865	John Desana, Wyandotte, Mich. Light House Board
مرد	Johnson, L. B		នដ	60x15	1868	
_	ohneon Nellie	41	80	51~18	1804	Lost. Harvey Morrison Traverse City .Mich
	Johnson, Robert E.		12	43x12	198	
	#Joliet	×	1596	266x38	1890	
٠	Joliet	es :	5 5 6 7	98×17	1883	
$\neg$ +	Jones, Arthur	٠,	£8	58x]5	£ 5 € 5	Albert Brown, Sand Beach, I
⁺.		•	472	167×30	1873	John Nelson, Tonawanda, N. Y.
	Iones, John V	. 200	190	125×27	1875	Edward Gillen, Milwaukee, V
	Sosphine	. 15	14	47x13	888	W. S. Tucker, Mt. Clemens, Mich.
	osephine		∃∞	38x10	1899	Albert Fommerville, Augres, Eugene C. Knight, Chicago,
<u>_</u> ,	səso	. 120	114	99×24	1866	
_	Joubert	194	\$	104×26	1900	Whitney Bros. Co., W. Superior, Wis.

Sch Judd, E. T.         389         369         149x29         1872 Adelaide M. Jex, Toledo, O.           Sty Juliet         42         6 62x15         1884 P. Pearo, Jise La Morte, Vt.           Sty Juliet         44         44         1884 P. Pearo, Jise La Morte, Vt.           Gas Juliet         37         25         63x10         1907 E. G. Filer, Manistee, Mich.           Gas Junita         38         560x16         1992 Charles A. Burton, Chicago, Jll.           Str Juniar         383         2619         340x45         1905 E. & W. T. Co., Anchor Line, Buffalo, N. Y.           Str Junior         33         310         340x45         1905 E. & W. T. Co., Anchor Line, Buffalo, N. Y.           Str Junior         33         310         340x48         1906 Oscar Jarsch.           Str Junior         310         340x48         1901 J. C. Gilchrist, Cleveland.           Sch Jura         27         216         129x25         1882 Ole Hanson, Milwaukee, Wis.           K         K         6         50x 8         Wm. J. McCaffrey, Plattsburg, N. Y.           Str Kaliaska         679         555         178x33         1884         Kaliasch.           Str Kaliaska         679         555         178x33         1889         D. Accadfrey, Plattsburg,		Chi-		J.C.	<b>;</b>
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>; ;</td> <td>gr.,</td> <td><b>=</b></td> <td>eland o., D</td> <td>ı, Ż</td>	; ;	gr.,	<b>=</b>	eland o., D	ı, Ż
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>ich. 10, N</td> <td>, <b>.</b></td> <td>ich. 30, I</td> <td><b>5</b>0 €</td> <td>Los alo,</td>	ich. 10, N	, <b>.</b>	ich. 30, I	<b>5</b> 0 €	Los alo,
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>t, M3 Juffa Buffa</td> <td>N.</td> <td>hicas</td> <td>II. gts., fran</td> <td>Fich. V. Y. Buff h.</td>	t, M3 Juffa Buffa	N.	hicas	II. gts., fran	Fich. V. Y. Buff h.
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>O. Vt.</td> <td>erge Co</td> <td>Gay. City</td> <td>ce ]</td> <td>N. N. N. Mic</td>	O. Vt.	erge Co	Gay. City	ce ]	N. N. N. Mic
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>and.</td> <td>lattsl J. A</td> <td>s. Co h. Nourg, ria E</td> <td>hicag c Co vren b, M</td> <td>gina fuffa ffalo Con, on,</td>	and.	lattsl J. A	s. Co h. Nourg, ria E	hicag c Co vren b, M	gina fuffa ffalo Con, on,
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>Tole and Monistre Dept on, Nuch on Waulh waulh</td> <td></td> <td>evela ackir Fran Vulut lenst kand</td> <td>S, C M, S Lar Lar</td> <td>r, Sa es, E Bu ring Hun Hun</td>	Tole and Monistre Dept on, Nuch on Waulh waulh		evela ackir Fran Vulut lenst kand	S, C M, S Lar Lar	r, Sa es, E Bu ring Hun Hun
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>Military Killer</td> <td>affre S. G</td> <td>Alegarian</td> <td>dam P. St.</td> <td>Col Col Skler Sort Cort</td>	Military Killer	affre S. G	Alegarian	dam P. St.	Col Col Skler Sort Cort
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>M. Islanda S. Islanda</td> <td>S. S. S.</td> <td>Moon way Min Min Min Min Min Min Min Min Min Min</td> <td>T. A. Co.</td> <td>&amp; C n L. Hic Eng id, J</td>	M. Islanda S. Islanda	S. S. S.	Moon way Min	T. A. Co.	& C n L. Hic Eng id, J
Judd, E. T.         389         369         149x29         1872           Juliet         42         40         62x15         1884           Juliet         37         25         63x10         1907           Juniet         44         44         52x22         1902           Juniata         433         2619         340x45         1905           Juniata         4333         2619         340x45         1905           Junior         339         310         135x33         1906           Junior         3719         277         216         129x25         1803           Ka         K         8         174         25x35         1870           Kaelma         277         216         129x25         1863           Karelma         679         555         178x33         1870           Karikaska         679         555         178x33         1870           Karikaska         835         588         185x12         1900           Karikaska         16         10         53x10         1804           Karikaska         835         588         185x33         1870           Karikarasa <td>A. J. Han</td> <td>. J. J cask: cago</td> <td>Herrican Lagaretta</td> <td>rlake Lake</td> <td>amin H. Dire C. V</td>	A. J. Han	. J. J cask: cago	Herrican Lagaretta	rlake Lake	amin H. Dire C. V
Judd, E. T.       989       369       149x29       185         Juliet       42       40       62x15       186         Juliet       37       25       63x10       190         Juniet       37       25       63x10       190         Junite       32       32       60x16       190         #Juniata       4333       2619       340x45       190         #Juniata       4333       2619       340x45       190         #Junior       3719       276       246x48       190         #Junior       3719       276       140x45       190         #Junior       3719       276       140x45       190         #Junior       3719       276       140x45       190         #Junior       3719       276       160x48       190         #Kalm       3719       277       216       129x25       186         Kalmas       677       555       178x33       187       188         Kana       10       555       178x33       187       188       188       188       188       188       188       188       188       188       188 <t< td=""><td>Adel P. H. John J. C. Chan Osca J. C. Ole</td><td>Wm Kall</td><td></td><td>Rob Inte Gt.</td><td></td></t<>	Adel P. H. John J. C. Chan Osca J. C. Ole	Wm Kall		Rob Inte Gt.	
Judd, E. T.       389       369         Juliet       42       40         Juliet       37       25         Juniet       44       44         Juniet       37       25         Juniet       44       44         Juniet       32       310         Juniata       323       310         Junior       339       310         Junior       379       376         Junior       379       376         Junior       379       376         Kalumior       227       216         Kalumior       227       216         Kalumior       32       16         Kankasa       679       555         Kante       10       10         Kante       10       10         Kante       10       10         Kathryn       9       9         ‡Kearsarge       3092       2721         ‡Keiderhouse, John       100       70         Keiderhouse, John       100       178         Keiderhouse, John       500       475         Keiler, Hugo       129       175         129 <td>1872 1884 1987 1907 1902 1905 1906 1906 1862</td> <td>1884</td> <td>1888 1888 1870 1900 1900</td> <td>1900 1894 1903</td> <td>1873 1907 1884 1907 1857 1890</td>	1872 1884 1987 1907 1902 1905 1906 1906 1862	1884	1888 1888 1870 1900 1900	1900 1894 1903	1873 1907 1884 1907 1857 1890
Judd, E. T.       389       369         Juliet       42       40         Juliet       37       25         Juniet       44       44         Juniet       37       25         Juniet       44       44         Juniet       32       310         Juniata       323       310         Junior       339       310         Junior       379       376         Junior       379       376         Junior       379       376         Kalumior       227       216         Kalumior       227       216         Kalumior       32       16         Kankasa       679       555         Kante       10       10         Kante       10       10         Kante       10       10         Kathryn       9       9         ‡Kearsarge       3092       2721         ‡Keiderhouse, John       100       70         Keiderhouse, John       100       178         Keiderhouse, John       500       475         Keiler, Hugo       129       175         129 <td>9x29 2x15 0x17 3x10 2x22 0x16 0x16 5x33 5x33 9x25</td> <td>0x 8 8x33</td> <td>6x10 3x10 5x33 2x13 8x12 6x12 6x12</td> <td>5x10 8x44 8x41</td> <td>3x30 lx 4x15 2x20 8x32 2x17</td>	9x29 2x15 0x17 3x10 2x22 0x16 0x16 5x33 5x33 9x25	0x 8 8x33	6x10 3x10 5x33 2x13 8x12 6x12 6x12	5x10 8x44 8x41	3x30 lx 4x15 2x20 8x32 2x17
Judd, E. T. 389 Juliet 61 Juliet 65 Juliet 37 Junet 37 Junet 37 Junet 339 Junior 339 Junior 339 Junior 339 Jura 227 Kaelma 679 Kanaka 14 Kanaka 14 Karma 38 Karma 16 Karma 10 Karma 10 Kathryn 629 Kathryn 100 Kelderhouse, John 100	- · · · • • · · ·		•		_ `
Judd, E. T. Juliat Juliet Juliet Juniet Junitat Junitat Junitat Junitat Junitat Jura Kalkaska Kanaka Karnaka Karna, Karna Karna, Minnie Karna, Minnie Karna Kate Kathryn Katelerhouse, Kelderhouse,	369 44 44 22 2615 1474 310 2169 2169			<b>C3</b>	
Judd, E. T. Juliat Juliet Juliet Juniet Junitat Junitat Junitat Junitat Junitat Jura Kalkaska Kanaka Karnaka Karna, Karna Karna, Minnie Karna, Minnie Karna Kate Kathryn Katelerhouse, Kelderhouse,	339 42 42 61 37 44 32 1708 339 3719 227	9 679	85588355 1708888	9 3092 1640	489 150 129 129
Judd, E. T. Juliat Juliet Juliet Juniet Junitat Junitat Junitat Junitat Junitat Jura Kalkaska Kanaka Karnaka Karna, Karna Karna, Minnie Karna, Minnie Karna Kate Kathryn Katelerhouse, Kelderhouse,		: :			hn John
Judd, E. Julia Juliat Juliet Juniet Juniata Juniata Juniata Juniata Juniata Juniata Juniata Kalkask Kanaka Kanaka Karah, M Karth, M Kathryn Kate Kathryn Kate Kathryn Kate Kathryn Kate Kathryn Kate Kathryn Kate Kathryn Kederh Kelderh Kelderh Kelderh Kelderh			mas	s. S.	, jo
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	ld, E	K elma lkasi	naka ne, nsas rl, N rl, N rma	yoshl arsar efe,	ith, ] derh lder slder derh ller,
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	Sch Str Str Str Str Str Sch Sch	Sty	Sty Sty Sty	Sey Str Str	Sch Tug Tug Str Sch Sch

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CLA88.		VESSEL.	Gross Net Tonnage Tonnage	Net Tonnage	K eel Beam	year Built	NAME AND ADDRESS OF OWNER OR MAMAGER.
Sch Sch Sch Bge Sch Bge	Kelley, Helley, Kelley, Kellogg	Kelley, Edward Kelley, Fred  ‡Kelley, Norman Kellogg Kelly Kelly, Nora	. 513 . 513 . 69		187x35 212x32 177x36 161x35 72x24 43x18	1874 1871 1905 1899 1891 1886	
Str ::	*Kennedy Kennedy Kennedy Kennedy ‡Kensingt ‡Kerr, D. †Kerr, W *Kestrel ‡Ketcham	Kennedy, Hugh., 796 Kennedy, Wu	7.064 86 3.762 3.5531 7769 21 21	500 43 43 7 3130 3992 943 14 779	141x30 552x56 74x20 37x11 370x50 468x52 605x60 59x12 193x40	1893 1893 1895 1903 1903 1906 1892 1892	NA N
Sch Tug Gas Sch	Kewaunee Kewaunee Keystone Keystone Keystone Kid Kid	Sch Ketchum, Jas. L. Str Kewaunee  Tug ‡Keystone  Tug Keystone  Gas Kid  Tug Kinch, Wm. H.  Sch King, C. G.		55 172 13 54 434	123×24 123×27 87×19 56×14 52×10 68×17 163×29		W. r. Snarp, Jay City, Mich. H. L. Brown, Buffalo, N. Y. A. M. Skang, Escanaba, Mich. Commissioners of Lincoln Park, Chicago, Ill. Simon Schacht, Erie, Pa. George Parkinson, Chicago, Ill. Buffalo Dredging Co., Buffalo, N. Y. Scymour Wells and E. J. Eber, Tonawanda, N. V.
Tug Str Sch Stp	44		13 532 55 55 532 2338	980 55 374 374 1823	50×10 176×30 71×20 195×30 294×42	1889 1874 1901 1890 1890	David Wood, Cleveland, O. M. Sicken, Marine City, Mich. Wm. H. Reese, Clayton, N. Y. Ashley & Dustin, Derboit, Mich. Northwestern Trans. Co., Detroit, Mich.

1887 Marion S. Kelsey, Brockport, N. Y. 1902 William Voetsch, Jr., Edgewater, N. Y. 1867 S. C. McLouth, Marine City, Mich.	1895 John A. Dahlmer, Dunkirk, N. Y. 1893 Conrad Niederman, Milwaukee, Wis. 1890 Independent Tug Boat Line, Milwaukee, Wis. 1913 Theodore F. Cowles, Buffalo, N. V.	1881 R. and R. McGregor, Chicago, Ill. 1882 R. P. Thompson, Port Huron, Mich. Aband-	1886 Ernst Schneidewind, Sheboygan, Wis. 1902 Fix Bros., Buffalo, N. Y. 1901 Frank F. Fix, Buffalo, N. Y.	1907 Pennsylvania S. S. Co., J. J. Boland, Mgr., Buf-	420x52 1907 Detroit S. S. Co., J. H. Walsh, Mgr., Detroit, Mich.
92x14 53x12 155x29	57×13 66×17 62×16 48×14	75x18 172x35	70×13 69×16 65×17 915×31	480x54	420x52
	<b>= 2</b> 28	-	98 88 88 88	4530	3632
Kirk, W. B. Kittie D Knapp, F. M.	Tug Knapp, L. W 17 Str Knapp, M. A 60 Tug Knight Templar 38 Str Kricht Theodore C. 99	Knobloch, Lena	Koehn, Frederick Koerber, Henry, Jr. Koerber, Lottie	Str ‡Kopp, Jacob T6035	Str ‡Kotcher, C. W4961

4

1888 Buffalo Transit Co., Buffalo, N. Y.	903 George S. Wagoner, Alexandria Bay, N. Y.	1887 L. S. VanAmburgh, Buffalo, N. Y.	896 Etna Steamship Co., Mitchell & Co., Cleveland.	905 L. G. Fisher, Chicago, III.	900 Ole Hansen, Milwaukee, Wis. Rebuilt 1906.	1869 Christ Nerdrum, Milwaukee, Wis.	.901 J. C. Gilchrist, Cleveland, O.	18 1899 Henry L. Peltier, Erin, Mich.	
Zeox:	104x,	95x]	375×4	126x	46x1	145x <sup>2</sup>	356x	68x]	
1595	247	110	3017	8	∞	273	2997	35	
Str TLackawanna2015	H. B. La Duchess 247	Scb Lady Wimett 141	Str ‡Lagonda3647	Str Lagonda 120	Str Lain, John, Jr 12	Sch Lake Forest 300	Str ‡Lake Shore3871	Sch Lake Side 39	

CLASS. VI	VESSEL.	Gross Net Tonnage Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str ‡Lakesid Str Lamb, ( Str ‡Lamber	‡Lakeside 337 Lamb, C. H 22 ‡Lambert, John1550	$\begin{array}{c} 337 \\ 22 \\ 1550 \end{array}$	229 9 929	148x28 54x14 241x41	1901 1891 1903	Sandusk John K Gt. Lak
Sch Lamber Gas LaMoc Scb Lang, J Str Langdo Str Langdo	Lambert, R. F 23 LaMoore, Helen C. 9 Lang, John 107 Langdon, James R. 2044 Langell Boys 387	23 9 2044 387	22 9 75 1550 286	50x15 49x12 93x17 240x42 151x30	1873 1904 1875 1889 1890	James Stevenson, Duluth, Minn. Jas. E. La Moore, Newaygo, Mich. Patrick Hines, Buffalo, N. Y. Rutland Trans. Co., Ogdensburg, N. Y. Mershon, Schuette, Parker & Co., Saginaw, Mich.
++	Langell, Simon 845 Langham 1810 Lansing 1911 Lark Lark 44 Lark 59 Larson, Julia 59 La Salle 1921 Lathrop, S. H 278	. 845 . 1810 . 1611 . 44 . 59 . 1921	677 1451 1247 44 56 1596	195x34 281x48 251x41 52x22 70x18 266x38 137x26	1886 1888 1887 1902 1874 1890 1856	
Tug Lattimer, Geo. E. Str Laughlin, James Dge Laura D	Lattimer, Geo. E 27 Laughlin, James6939 Laura D 135	6939 135	19 <b>5492</b> 122	530x16 530x56 101x27	1899 1906 1891	
Cyt Laurens Gas Laviole Sch Law, L Scb Lawren Sch Leader Tug Leather Str Lee, Frt Bge Lee, S	Laurena Laviolette, G. F Law, Lizzie A Lawrence, Fred M Leader Leathem, John Lee, Fred A	64 19 1747 124 31 75 60	43 113 710 92 38 40 40	75x15 50x11 196x33 89x17 57x15 80x17 70x16	1899 1903 1875 1893 1892 1878 1878 1896	James Hartness, Springfield, Vt. Felix Laviolette, Green Bay, Wis. Rebuilt 1906. Edward Hines Lumber Co., Chicago. (Lost). Jennie P. Gilson, Buffalo, N. Y. Georgia Lee, St. Clair, Mich. Leatham & Smith, Sturgeon Bay, Wis. Lake Erie Dredging Co., Buffalo, N. Y. Dunbar & Sullivah Dredging Co., Buffalo, N. Y.

1901 William A. Lockwood, Sandusky, O. Re-	1980 E. & W. T. C. Anchor Line. Buffalo, N. Y. 1907 Henry Leidheiser, Vermillion, O. 1875 Albert Dickinson, Chicago, III. 1901 Mark Garrow, Eureka, Wis. Abandoned. 1873 Alex. Hitchcock, Port Clinton, O.	1896 Wm. Legare, Alexandria Bay, N. Y. 1905 Chas. Nelson, Erie, Pa. 1905 G. A. Grosse, Sr., Little Swamico, Wis. 1908 Adolph Rosesr, Siren Bay. Wis. 1908 U. S. Trans. Co., Rockefeller Bldg., Cleveland. 1899 H. Doville, Sodus Point. N. Y. 1894 George Macdonald, Chicago, III.	1888 Butler Bros. & Hoff Co., Detroit, Mich. Sunk. 1882 Saginaw Bay Trans. Co., Cleveland. 1886 John Green. Buffalo, N. Y. 1898 Austin Harrington, et al., Holland, Mich. 1806 Alfred L. Cornell, Washington Harbor, Wis. 1872 A. A. & B. W. Parker, Detroit, Mich. 1891 Robert Hill, Cecil Bay, Mich. 1902 Milliam Wood, Cleveland, O. 1892 William Wood, Cleveland, O. 1889 J. N. Tucker, Mt. Clemens, Mich. 1898 Pittsburg Steamship Co., Cleveland, O. 1891 James Tesar, Two Rivers, Wis. 1903 T. Hurley, Detroit, Mich. 1893 James Tesar, Two Rivers, Wis. 1903 T. Hurley, Detroit, Mich. 1886 W. E. Baldwin, Buffalo, N. Y. 1903 C. H. Little Co., Detroit, Mich. 1887 W. Little Co., Detroit, Mich. 1886 A. W. Adams, Chaumont, N. Y.	
115x31 1		•		
84	1503 20 312 88 318		245 1342 126 126 126 126 28 28 28 182 28 42 42 43 49 49 49 49 49 49 49 49 49 49 49 49 49	
Le Fevre 138	Leidheiser Bros Leighton, Frank C Leimer, J. E Leland	Lena L   10   10   10   10   10   10   12   12	Lester, T. G. Lewiston Linerty Lillian Lillian Lillia A. Lillia D. Lillia and May Lilly E. Lilly K. Lillia Albert Little Albert Little Georgy. Little Jake	
Str	Str Stp Stp	Str Gas Str Str Tug	S. S	į

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CLASS.	VERSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Little Maeta	10	9	36x10	1903	36x10 1903 John Geneit, Charlevoix, Mich. Rebuilt in
Str	‡Livingstone, W	Wm	:	532×58	1908	1908 Mutual S. S. Co., G. A. Tomlinson, Mgr.,
Str. Tug Gay Str. Str. Tug Str. Tug Str	#	213 223 223 233 234 235 235 236 237 237 237 237 237 237 237 237 237 237	222 223 223 330 330 111 111 111 110 110 110 110 11	281x41 49x 9 68x12 68x12 67x18 67x18 67x18 59x15 50x16 46x11 10x2 110x2	1888 1888 1888 1887 1903 1903 1904 1889 1900 1895 1895 1895 1895 1895 1895 1895 1895	Wm. Lunder Library Lyon N. Debn John J. C. John G. Joseph Wm. S. J. B. N. J. Serr. J. B. N. Mois. Geo. S. Geo. S. A. Mois.
Tug Str Sch Tug	Louise B Louisiana Loutit, Willie Lovisa	1929 181 18	8 1383 172 9	41×11 267×39 116×25 53×13	1898 1887 1873 1891	<ul> <li>A. W. Beidler, Chicago, III.</li> <li>F. M. Osborne, Cleveland, O.</li> <li>Chas. Donahue, Lorain, O. Out of Com.</li> <li>C. F. Mischler, Sandusky, O.</li> </ul>

Σ	

84 C. B. Moiles, Saginaw, Mich. Burned.	394 Jas. McCann, St. James, Mich.	286 Simon Schacht, Erie. Pa.	397 Great Lakes Dredge & Dock Co., Chicago, III.	467 —— Detroit, Mich.	87 Walter V. Metcalf, Cleveland. O.	47 72x21 1897 Dunham Towing & Wrecking Co., Chicago, III.	(Burned).	98 Pittsburg Steamship Co., Cleveland, O.	73 Edmund Hall. Detroit. Mich.	92 James Magee, Duluth, Minn.	08 Hutchinson & Co., Cleveland, O.
3 18	5 18	1 18	8 18	ж ж	4 18	1 18		0 18	1 18	1 18	2 19
95x2	69×1	47×1	70×1	51x1	106x2	72x2		413x5	151x3	45x1	432x5
Sch McBrier, A. J 111	Str McCann, Margaret. 35	Tug McCarter W. J 18	Tug McCarthy, Wm 80	Tug †McCormick 23	Str McCormick 160	Tug McDonald, Rita 69		Str †McDougail, Alex3686	Bge McDougall, John A 415	Tug McFadden, J. D 15	Str #McGean, John A5100

CLASS.	VESSEL.	Gross	Gross Net Tonnage	Keel Beam	vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str Str Str	McGregor, Wm 732 McGregor, Mary A. 711 ‡McIntosh, H. P6765 McIntyre, C. A 44	1	696 581 5371 22	200×33 179×33 540×54 48×12	1872 1889 1906 1884	James E. Sheehan, Detroit, Mich. W. H. Teare, 7 Carter st., Cleveland, O. J. C. Gilchrist, Cleveland, O. Frank F. Brown, Buffalo, N. Y.
Str Sch Tug	McKercney, John McKinney, Price McLachlan, Mary E.1762 McLean, Andrew A. 23	732	443 1692 11	161x37 432x52 251x41 50x15	1906 1908 1893 1890	John M. McKerchey, Detroit, Mich. J. J. Rardon, Chicago, III. McLachlan Trans. Co., Port Huron, Mich. William H. Sharp, Bay City, Mich.
Str. Tug	McLouth, Syd C		2046	266x40		1880 Sydney C. McLouth, Marine City, Mich. Nee Rochester. 1888 P. B. McNaughton; Buffalo, N. Y.
Str Str Sch	McVea, Charles 331 McVea, E. J 278 McVittie, A 2046 McWilliams, Ed 743	331 278 2046 743	263 1552 706	123×24 140× 240×42 200×35	1888 1873 1890 1893	Wm. H. Waggoner, Green Bay, Wis. M. Sicken, Marine City, Mich. Rutland Trans. Co., Ogdensburg. N. Y. Hope Trans. Co., J. A. Francombe, Mgr.
Str	#McWilliams, J. J. 3400 Mabel 27 Mabel W 17 IMack, Wm. H. 3781	3400 27 17 3781	2808 18 16 2923 2785	352x44 68x11 44x11 354x48		Mitchell & Co. Cleveland, O.  Jas. G. Wilson, Clayton, N. Y.  J. J. Wagner, Chicago, Ill.  Jenkins S. S. Co., Rockfeller Bldg., Cleveland.
Sch	Madden, Lizzie Madden, Lizzie Madden, Thos. F. Madonna Mae Maggie Maggil, C. J. Magna Magnetic	690 F. 17 76 15 30 334 3259	217 20 20 20 317 3124	175x34 47x13 79x24 45x 8 54x16 141x30 352x44 264x38	1887 1891 1899 1899 1896 1882	M. J. Lynn, Mgr., Bay City, Mich. Burned, O. Christenson, Detroit Harbor, Wis. Chicago, III. B. N. Pickards, Leland, Mich. William H. Ellery, Detroit, Mich. Pittsburg Steamship Co., Cheveland, O. J. C. Gilchrist, Cleveland, O.

<ul> <li>14 44x12 1905 Philip Mago, Tonawanda, N. Y.</li> <li>19 49x14 1905 C. H. Kendall, Clayton, N. Y.</li> </ul>	274×40 18	75×18 189	375×46 189	132×27 1862	2998 366x44 1902 Franklin Trans. Co., J. S. Ashley, Mgr., Cleve-land. O.	291×40 1889	110x40 1905	٠.	108x24 1891	37×10 190		64x18 189	66×17 190	60×17 190	454×50 189	302×40 189	41x12 188	281x41 188	8121 352x44 1896 Pittsburg Steamship Co., Cleveland, O.	436x50 1899 Pittsburg Steamship Co., Cleveland, O.	202202	157×31 1882	1903	274×42 1893	52x16 1896	1898	61×13 1891	39 63x17 1906 L. S. & M. S. Ry. Co., Cleveland, O.	
Tug Mahar, John 20 Slp Mahone, Belle 19	#Mahoning21	Sto Maid of the Mist 99		Str Maine 332	Bge ‡Maitland, Alexander.3351	Str Maiestic 1985		Bge Majestic 63	Stb Major 128	Major 12	Major1864	Major Dana 47	Major Kingman 47	Tug Major Symons 43	Malietoa5229	Malta2237	Mamie George 12	Manchester2132	Bge † Manda			Manistique 473	M. M. & N. No. 1.2933	2944	Manitou	Mann, John C	Str Mann, Mary 11	Str #Manning, J. P 58	

CLASS.	VESSEL.	Gross	Gross Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANGER.
Str † N Str †	Str         Manning, John P.         13           Str         ‡Manola         2825           St. L. Mansfield         382           Gas. Manulitta         37           Str. Manzanita         67           Sch † Marcia         2237           Sty Marcia         22           Bge         Marconi         175           Sch Marengo         648           Sty † Margaret         88	တ္လုံးက လုံး 🗆 မ	7 1835 351 24 46 2132 15 175 615	46×11 282×40 159×32 60×12 99×16 302×40 62×10 82×26 189×32 96×16	1891 1890 1892 1906 1904 1895 1903 1873 1902	John: Monson, Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Ironville Dock & Coal Co., Clevelan, W. W. Tolman, Berlin, Wis. F. A. Price, Chicago, III. Formerly Pittsburg Steamship Co., Cleveland, O. M. D. Wilber, Chicago, III. Wm. Osborn, Duluth, Minn. George B. Taylor, Erie, Pa. J. H. Ruthersford, Grand Isle, Vt.
Tug N Tug N Tug N Tug N Str † Str † Tug N Tug I Tug t	Tug Margretta       18         Tug ‡Marguerite       27         Str ‡Maricopa       4223         Str ‡Marina       2431         Str †Marion       930         Tug Marion       17         Tug ‡Marion       63         Tug ‡Marion       63	ite 27 4223 36 2431 17	9 13 13 18 1992 672 12 43	52x13 45x14 406x48 66x14 292x40 202x34 43x13 60x18	1894 1894 1896 1883 1891 1889 1889	Joseph J. Sparks, Detroit, Mich. Burned. Great Lakes Dredge & Dock Co., Chicago, III.  Pittsburg Steamship Co., Cleveland, O. Wittsburg Steamship Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Michigan, Indiana & Illinois Line, Chicago. L. S. & M. S. Ry., Cleveland, O. Henry Hickler, Sault Ste. Marie. Mich.
Str Handler Str Ha	Str       #Mariposa		2306 5 23 1835 2429 284 284 284 289	330×45 51×11 59×12 283×40 330×45 142×26 141×28 241×43	1892 1873 1901 1890 1892 1870 1883 1902	Pittsburg Steamship Co., Cleveland, O. Champlain Trans. Co., Burlington, Vt. J. S. Miller, Franklin, Pa. Pittsburg Steamship Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Donnelly Contracting Co., Buffalo, N. Y. Out of Com. William Munroe et al., Muskegon, Mich. Marquette & Bessemer D. & N. Co., Conneaut, Ohio.

1905 Marquette & Bessemer D. & N. Co., Conneaut, Ohio	1880 Albert Shaw. Buffalo, N. Y. 1901 J. C. Gilchrist, Cleveland, O. 1902, La Crosse, Wis.		1891 J. O. Naries, R. Co., Manistee, Mich. 1898 Louis Sands, Salt & Lumber Co., Manistee, Mich. 1888 Geo. B. Wilkinson, Superior, Wis. 1882 J. H. Marston, Appleton, Wis. 1895 N. E. Topel, Pensaukee, Wis. 1896 Pittsburg Steamship Co., Cleveland, O.		1896 Great Lakes Towing Co., Cleveland, O. 1866 J. Dorrington, 62 Spruce st., Detroit. 1883 M. Sicken, Marine City, Mich. 1890 Pittsburg Steamship Co., Cleveland, O. 1881 Edward Hines Lumber Co., Chicago, III. 1892 Henry Houghton, Detroit, Mich. Lost. 1876 A. Harrington, Holland, Mich. 1877 Rosa Claflin, Little Sturgeon, Wis. 1881 J. H. Gillingham, Bay Port, Mich. 1898 Geo. C. Boldt, Alexandria Bay, N. Y. 1907 Martin Tansey, Erie, Pa. 1891 Thomas J. Welsh, Erie, Pa. 1870 A. F. Furguson, Ontonagon, Mich. 1902 D. Jack, Fond du Lac, Wis.
338x54 19		436x50 19 135x26 18 241x41 19	154×33 18 150×30 18 198×34 18 128×24 18 71×14 18 352×44 18		56x15 18 175x32 18 183x28 18 183x28 18 183x3 18 174x30 18 171x13 18 55x12 18 55x11 19 56x12 18
338					175 175 152 152 174 174 174 174 174 174 174 174 174 174
1484	105 2943 117	5 5 5 5 5 5 5 5 5 5 5 6 7 7 7 7 7 7 7 7	40.0	42 12 13 14 15	25 240 240 2836 1836 1836 194 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
r ‡M. & B. No. 22514	Mars	#Marsala5039 Marsh, Geo. A 202 #Marshall, Albert M. 1640	Str Marshall, J. D 531 Str Marshall, Maggie 365 Str Marshall, Samuel 755 Str Marston, J. H 117 Tug Martel Mae 38 Bre ‡ Martha 3256	h Martha G 14 19 Martin, James H 36 h Martin, Jessie 42 g Martin, John 20	Martin, Jas. T.   47
Str	Str	Sch Str	Str Str Tug By	Sch Tug Sch Tug	Tug Sch Str Str Sch Sch Gas Tug Yt

CLASS.	. VESSEL.	Gross Net Tonnage Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGES.
Str	Mary H. Mary L. Mary L. Mary L. Marytete tMaryland tMascote Mascotte tMascotte tMascotte Mascotte Mascotte Mascotte Mascotte Mascotte Mascotte Mascotte	208 12 30 44 2419 2431 13 36 162 162 155	165 6 30 30 41 1892 1992 9 9 25 75 75 148	116x29 38x 9 62x16 59x20 316x42 292x40 42x 9 59x12 103x29 115x24	1886 1903 1895 1894 1894 1891 1902 1905 1867 1866	John Homegardner, Sandusky, O. John Lane, Jr., Kewannec, Wis. Hulda Braunsdorf, Clay Banks, Wis. Joseph F. Fink, Chicago, Ill. H. R. Spencer, Duluth, Minn. Pittsburg Steamship Co., Cleveland, O. Ignatz Selin, Milwaukee, Wis. F. A. Hardy, Les Chenaux, Mich. Walter S. Lloyd, Duluth, Minn. Sherman Smith, Marinette, Wis. Gus Gunderson, Sheboygan, Wis. Abandoned.
Set of the	Massasauga Massasauga Massachusetts Matataala Mather, Carrie Mather, Samuel Mather, Samuel Mather, Wm. G. #Matoa Mather, Wm. G. #Mauch Mauch Maud Maud Maud Maud Maud Maud Maud Maud	99 1119 1415 1440 2600 2600 1713 6751 6838 2311 4499 4499 1832 4499 1832 4499 1832 1832 1832 1832 1832 1832 1832 1832	254 2525 2525 2525 2525 2525 11318 11318 316 316 316 316 316 316 317 318 318 318 318 318 318 318 318 318 318	84x20 92x17 4235x37 4235x37 4235x57 4234x45 37x11 37x11 37x11 37x11 37x11 37x10 381x50 381x50 381x50 381x50 48x12 48x12 38x 9	1898 1882 1882 1899 1899 1890 1890 1874 1901 1881 1881 1881 1889 1889 1889 1889	Great Lakes Towing Co., Cleveland, O. Charles La Point, Buffalo, N. Y. J. C. Gilchrist, Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Jas. Davidson, W. Bay City, Mich. W. E. Marshall, Sturgeon Bay, Wiss. Pittsburg Steamship Co., Cleveland, O. Cleveland, O. Cleveland Gliffs Iron Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Pittsburg Steamship Co., Cleveland, O. Belknap & Phillips, St. Clair, Mich. Belknap & Phillips, St. Clair, Mich. Lake Superior Dredging Co., Duluth, Minn. Pittsburg Steamship Co., Cleveland, O. Claye, Superior Dredging Co., Duluth, Minn. Pritsburg Steamship Co., Cleveland, O. Capt. L. E. Welch, Mackinaw, Mich. Philip S. Brown, Chicago, III. Philip S. Brown, Chicago, III.

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1907 James W. Johnston, Buffalo, N. Y. 1888 Bruno V. Nordberg, Milwaukee, Wis. 1872 Val. Harms. Chicago, Ill. 1882 J. C. Gilchrist, Cleveland, O. 1880 John Kelting, Toledo, O. 1888 Wm. Strong, Tonawanda, N. Y. 1898 Sophia Meyer, Milwaukee, Wis. 1898 Hugh R. Havey, Detroit, Mich. 1906 Grand Island Steamship Co., Grand Island, Mich. 1884 M. C. R. R. Co., Detroit, Mich. 1891 Arthur Ziern, Chicago, Ill. 1891 The Marine Trans. Co., Ogdensburg, N. Y. 1891 Ep. Rector. Port Peninsula, N. Y.	1895 Cleveland Dredge & Dock Co., Cleveland, O. 1891 Harris F. Dunbar, Buffalo, N. Y. 1906 Jas. E. Davidson and H. L. Shaw, Bay City, Mich. 1900 Geo. E. Dailey. Name changed to Dailey. 1899 L. S. Goss, Toledo, O. Rebuilt 1901. 1908 Pickands, Mather & Co., Cleveland, O. 1874 D. W. Mills, 5 Carter St., Cleveland, O. Formerly Steamer Sparta. 1888 Red Star Line, Buffalo, N. Y. 1906 Weston Transit Co., North Tonawanda, N. Y. 1903 City of Milwaukee, Wis. 1897 City of Milwaukee, Wis.
34x10 44x14 54x14 1125x26 235x37 78x15 78x15 525x38 89x24 131x28 530x56 45x12 45x12 45x12 45x11 45x11 49x11	142x33 52x14 504x54 41x12 39x13 354x48 532x58 202x34 256x40 605x60 105x24 105x25
20 8 190 1202 27 1034 64 64 64 64 69 99 99 99	268 16 16 4947 6 8 2858 4850 654 654 1152 1132 92 92
Str         Merle         10           Sir         Merlin         21           Sch         Merrill         17           Sch         Merrill         18           Str         Merrinac         1398           Str         Messenger         48           Str         Meyer, F. A.         94           Str         Meyer, W. H.         94           Str         Midnai         228           Str         4Michigan         6924           Gap         Midway         9           Sch         Middlesex         618           Str         Middlesex         618           Str         Middlesex         618           Str         Middlesex         618           Middlesex         23	Bge Mikado

City of Milwaukee, Wis.  Joseph B. Ried, Ogdensburg, N. Y.  Conrad Niederman, Milwaukee Wis. Rebuilt	Western Transit Co., Buffalo, N. Y. H. Steinbrenner, Cleveland, O. Kinsman Trans, Co., H. Steinbrenner, Mngr.,	St. Thompson, Manitowoc, Wis.  Marken, Manitowoc, Wis.  McCormick, Detroit, Mich.  N. Schlosser, Milwaukee, Wis.  John A. Jordan, Buffalo, N. Y. Out of com,  Luther P. Graves, Buffalo, N. Y.	Mutual Transit Co., Buffalo, N. Y. Frank P. Crouch, Rochester, N. Y. Paul Methot, Oswego, N. Y. Olof Smith, Chicago, III. Joseph Challe, Green Bay, Wis. John Ries, Sheboygan, Wis.	S. W. Robinson, 4188 Wayne av., Chicago, III. George W. Smith, Charlevoix, Mich. Walter H. Oades, Detroit, Mich. William L. Morrison, Erie, Pa. Jacob Pfister, Dunkirk, N. Y. Lars H. Jensen, Sturgeon Bay, Wis. John F. Fuller, Alexandria Bay, N. Y. Northern Mich. Trans. Co., Chicago, III. Eugene Harrown. Sodus N. Y.	1895 D. Lawrence, Chicago, III. 1900 Lakeside Steamship Co., Duluth, Minn. 1906 Cornell S. S. Co., John Mitchell, Vice Pres., Cleveland, O. 1874 Herbert Hulm, Pt. Huron, Mich.
Control		John Lut	Mut Fran Pau Olo Jose John	S. V. Geo V. Wall Jaco Lars John North	Cor Her
1906 1876 1889	1902 1903 1905	1885 1880 1895 1863 1891 1893	\$\$ \$ \$ \$ \$ \$ \$	1904 1906 1883 1898 1898 1904 1904	
96x26 53x 9 70x23	325×44 380×50 480×52	68×17 53×13 70×16 125×26 91×17 198×36	238x42 30x12 x10 71x18 71x13 32x 9	53×11 35×10 57×18 34×10 51×14 79×21 47×10 225×40	014 -
24 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2424 3229 4471	2112 869 8118 8118	1221 9 10 20 20 9	7 08 118 148 148 148	31 1550 3246 260
Tug ‡M. F. D. No. 29., 148 Str Milton	r †Minch, Anna C4285 r †Minch, Philip5865		r + Minneapolis	Minnie K. Minnie S. Minnie S. Miriam Mischler, C. F. Mishicott Mississippi  Mist	***
Tug Str Str Tug	Str Str Str	Sec. 17	147	Str Sch Sch Sch Sch	Str Str Str Sch

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CLASS.	VESSEL.		Gross	Gross Net	Kesl Beam	Y ear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	#Mitchell, Samuel2277	amuel	777	1870 738	292×40 194×34	1892 1890	W. C. Richardson, Mngr., Cleveland, O. Spence Bros., Cleveland, O.
Tug C.F.	tm. & m.	No. 1	.2933	22 1755	87×16 328×56	1903 1903	M. M. & N. R. R. Co., F. F. Blomeyer, Pres. and
Tug	Mocking Bir	Bird 177	. 177	13	123x23	1873	G. A. Tomlinson, Duluth, Minn.
Str	Mogul 23 ‡Mohawk 2357		.885 57.	13 1616	292x41	8888 8888 8888	Buckeye Fish Co., Cleveland, O. Western Transit Co., Buffalo, N. Y.
Scb	Mohawk	• •	137 1918	100	95x17		
Tug	Moiles, An	ınie	. 146	•	86x16	1867	Benj. Boutelle, Bay City, Mich.
Str		मु		. 91	80x50 80x50		Union Towing & Wreck, Co., Duluth, Minn.
Tug Sch			. 146 . 301	286 86	88x22 136x26		Great Lakes Towing Co., Cleveland, O. T. Hurley, Board of Trade, Detroit, Mich.
S. T.				ලි <b>ව</b>	79x20 48x12	1882	Geo. McKesson Brown, Skaneateles, N. Y. Robert G. Goff, Grand River, O.
Tug	Monitor		5	22	67×16		St. Lawrence River Power Co., Massena,
Gas				17	44×10		Michael Bohn, Racine, Wis.
Tug C	Monk, John E	ы. I	85	81 82 82	66x16	1887	Dr. C. J. Crumine, Detroit, Mich.
Scw		ctrine	4 8	\$4	175x25		Ound Cooperage Trans. Co., Creveland, C. Lost. Dunbar & Sullivan Dredging Co., Buffalo,
Tug Str	Monson, Montana	Thos.	25 1535		53x14 236x36		John Monson, Cleveland, O. Abandoned. Capt. Ben Tripp, Cleveland, O.
Str	Montana Montauk Monteagle		345 92 1273	1034 33 1034 33 1034 33	138x27 98x17 213x35 860x46	1864 1875 1884 1903	N. Barkell, Marine City, Mich. L. D. Norton, Chicago, III. Robt. Downey & Co., Oswego, N. Y. James Davidson W. Raw City, Mich.
280	MONICE MINA		1		054000		James Pariotoli, W. Pay Only, Mich.

		•
E. S. Fleury, Isle La Motte, Vt. Shannon & Garey, Saginaw. Mich. Cecelia Rouvel, Marine City, Mich. Lost. George Moone, Buffalo, N. Y. Frank M. Osborne, Cleveland, O. Winnebago Tug Boat Co, Oshkosh, Wis. C. C. Moore. Muskeron, Mich.	Gustave M. Johnson, Sheboygan, Wis. Lost. Alex. R. Sinclair & Co., Port Huron, Mich. Kelley Isi. Lime & T. Co., Cleveland, O. Tonawanda I. & S. Co., N. Tonawanda, N. Y. Sunk	1896 Dunham Towing & Wrecking Co., Chicago, III. 1891 Allen F. Rees, Houghton, Mich. 1906 Pittsburg Steamship Co., Cleveland, O. 1892 Wallace & Cunningham, Detroit, Mich. 1874 Fabiar Willetts, Essexville, Mich. 1906 Cambria Steamship Co., Cleveland, O. 1906 Masaba S. S. Co., Duluth, Minn. 1888 Hunter L. Betts, Phoenix, N. Y. 1906 Pickands, Mather & Co., Cleveland, O. 1807 Charles S. Hebard, Pequaming, Mich. 1898 Pittsburg Steamship Co., Cleveland, O. 1899 Dunham Towing & Wrecking Co., Chicago, III. 1894 Richard F. Squires, Marine City, Mich. 1864 W. Mueller Co., Marquette Bldg., Chicago, III. 1874 Wm. Mueller Co., Marquette Bldg., Chicago, III. 1875 Ww. Leeming. Chicago, III. 1876 Byron Kettelson, Racine, Wis. 1877 Co., Anchor Line, Buffalo, N. Y. 1907 Frontier S. S. Co., No. Tonawanda, N. Y.
1889 1866 1905 1890 1880 1881	1894 1901 1888	1891 1906 1906 1906 1906 1906 1887 1887 1887 1904 1907
	103×24 180×34 162×36 213×39	71×19 65×12 580×58 240×42 240×42 441×11 580×52 95×18 532×58 17×17 145×50 110×26 10×26
300 275 275 1689 1689 294 7	136 588 372 1014	553 253 1565 1565 105 5419 3606 105 5087 69 490 490 490 490 18 18 18 18 18 18 18 18 18 18 18 18 18
Montgomery, Monticello Montpelier Moon  †Moore, John Moore, C. W. Moore, C. W.	Moore, I Moore, Moran, I Morania	Morgan T. T
Sch Str Str Str Str Str Str	Sch Bge Sch	Tug Str Str Str Tug Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch

Name and Address of Owner or Manager.	Mutual Transit Co., Buffalo, N. Y. Herman Myers, Buffalo, N. Y. Ogdensburg C. & T. Co., Ogdensburg, N. Y. U. W. Blodgett, W. Bay City, Mich. Lake Eric Dredging Co., Buffalo, N. Y. W. B. Chapin, Cheboygan, Mich. W. W. Mumo, Gibraltar, Mich. C. H. Strong, Eric, Pa. Zenith Dredge Co., Duluth, Minn. Timothy Hurley, Detroit, Mich. Abandoned.	C. E. Soule, Jr., Chicago, III. Wm. Coley, Buffalo, N. Y. Out of com. W. A. Pungs, Detroit, Mich. J. S. Bastar, Chicago, III. Crosby Trans. Co., Milwaukee, Wis. Great Lakes Dredge & Dock Co., Chicago, III. John Cullnan, Chicago, III. Pittsburg Steamship Co., Cleveland, O. Great Lakes Towing Co., Cleveland, O. Great Lakes Towing Co., Cleveland, O. Peter Halvorsen, Chicago, III.	R. B. Knox, Duluth, Minn. George C. Sherman, Watertown, N. Y. W. J. Turner, Milwaukee, Wis. Chas. S. Neff, Milwaukee, Wis. Wm. F. Thompson, Duluth, Minn. Anthony Greilick, Traverse City, Mich. J. U. Karr, Cleveland, O.
	Mutual Tr Herman M Ogdensbur O. W. Blo Lake Eric W. W. N. N. C. H. Stro Zenith Dr Timothy		R. B. Kn George C. W. J. Tur Chas. S. N Wm. F. T Anthony J. U. Kar
Year Built	1905 1903 1884 1888 1894 1900 1901 1873	1904 1904 1906 1904 1901 1881 1881 1886 1886 1886	1886 1901 1901 1888 1890 1870
Keel Beam	100x30 59x14 82x17 186x32 52x14 43x12 61x19 86x20 76x18	31×12 27× 7 65× 8 65× 8 68×11 68×11 203×35 1133×41 100×18 82×21 129×26	46x13 79x12 39x14 200x38 137x28 149x30
Net Ton-	441 18 12 12 13 13 13 83 83 83 83 83	9 10 10 10 423 423 3162 198 198	800 210 888 438 888
Gross Ton- nage	441 27 27 27 37 399	9 17 17 181 1181 1181 423 3422 3422 3422 3422	19 42 20 20 392 376 435
Veskel.	Mutual Myers Boys Myra Myra Myrtie Myrtle Mystle Mystery Mystic Mystic Mystic	++ ++	Navagh, John Navaso Navare INeff, Charles S 9 Neff, M. C Neff, Sidney O Neil, Fanny
Class.	Bge Tug Str Str Sch Sty Tug Sch	September 18 Septe	Str Tug Str T

1892 Pittsburg Steamship Co., Cleveland, O.		John Hanrath, Frankfort, Mich.	Cook & Brown Lime Co.,	_		J. C. C	ı, t	J. C. Gi	,~	0,1				Wilkinson Tran	_	Bickley Bros., Sandusky, O.		Thousa	s.	C. C. Naleid, Racine	A. J. J. Newman, Cape Vincent,		Phoenix Steamship Co., Duluth,	Bay	1892 Eva E. West, Crescent, N. Y.		880 Command M. Dailer, Milling.		J. W.	1034 John J. Boland, Bunalo, IN. Y.		1882 International Ferry Co., Buffalo, N. Y.	
320×42 1 81×27 1		_		_	65×17	266×41 1	102×23 1	346×48	_	_	_	_	_	525×55 1		_	78x20 1		•	111×26	_	,			95x17			٦.	-	110×30	00X611	92×22 1	
1571 42	-	ĸ	19	17	23	1659	8	2773	2	_	1904	751	7	:	16	10	99	\$	20	149	17	749	1751	131	35	717	327	3 6	#707 1	ξ, χ	3	149	,
Str †Neilson, James B. 2234 Str Nelles, George T. 83		Gas Nellie 7	Str Nellie B 28		: ≥	• • •	Neptune	Str ‡Neptune3717	Gas Neptune 11	Neptune	Neshoto2	Nester, (	Nettie			Nps Newell, W. F 15	Newhouse, Oscar	New Isl'd Wand'r 1	New Westminster .	Sch Newland, J. B 157	Newman	Newman, T. F.	New York	Stp New York 294	New York Kec	New York World.		NIST COLUMN	Intagara		Iniagara	Str Niagara 213	

CLASS.	VRSEEL.	Gross Net Tonnage	Net Tonnage	K ee l	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Scb	Niagara Nicaraugua	99	71 911	98x17 241x37	1878 1894	Wm. H. Wallace, Joliet, Ill. Ogdensburg Coal & Towing Co., Ogdensburg,
Str Tug Str	#Nicholas, I. W2624 Nichols, J. G 111 Nick	2624	1857 74	328×42 106×22 36× 9	1894 1889	Minch Transportation Co., Cleveland, O. Thomas B. Cresswell, Saginaw, Mich.
Str	ch Nielson, Emma L. 90 6 tr Nightingale 56 6 tr Niko 814 66 tr Niko 1060 814 66		. 38 83 83 83 83 83 83 83 83 83 83 83 83 8	98x20 76x13 189x35	18831 1890 1880 1880 1880	3 David Ferris, Alpena, Mich. 9 H. S. Johnston, Clayton, N. Y. 9 Frank E. Willard, Chicago, Ill.
Str	Nimrod	1300	70	40x10	1887	J. C. Guennist, Cleveland, O. Lost.  Lake Champlain Transportation Co., White-
Str Str	97 98 Nipigon Nixon, S. F.	••••	392 387 540	125x 122x30 191x34 33x11	1902 1900 1883 1902	Empire Limestone Co., Buffalo, N. Y. Empire Limestone Co., Buffalo, N. Y. Marine Trans. Co., Ogdensburg, N. Y. C. F. Mischler, Sandusky. O.
Stp Bge Bge	No. 1 No. 1 No. 1 No. 1	-	5 8 60 100 100	60x22 49x29 105x22	1887 1907 1875	1 ne Ludington Woodenware Co., Ludington, Mich.  J. W. Candler. Detroit, Mich. Francis W. Sullivan, Duluth, Minn.  H. M. Peyton. Duluth, Minn.
Bge Dge Scw		154 191 160 160	1463 197 198 169	309×44 103×32 78×25 97×22		L. M. C. F. Trans. Co., Milwaukee, Wis. Buffalo Dredging Co., Buffalo, N. Y. Buffalo Dredging Co., Buffalo, N. Y. Buffalo Dredging Co., Buffalo, N. Y.
Scw Scw Bge Bge		276 104 253 85	27 4 4 5 5 4 5 8 8 8 8 8 8	131x28 104x23 81x60 77x26 72x14		St. Lawrence River Power Co., Massena, N. Y. Lake Sup. Cont. & Dredg. Co., Duluth, Minn. Cook & Brown Lime Co., Oshkosh, Wis. Peter Grignon, Duluth, Minn. Lake Sup. Cont. & Dredg. Co., Duluth, Minn. M. Sullivan, Buffalo, N. Y.

	Dunbar & Sullivan Dredging Co., Buffalo, N. Y. Dunbar & Sullivan Dredging Co., Buffalo, N. Y. M. Sullivan, Buffalo, N. Y. Buffalo Dredging Co., Buffalo, N. Y. Buffalo Dredging Co., Buffalo, N. Y. Buffalo Dredging Co., Buffalo, N. Y.
1899 11898 11898 11897 11897 11907 11907 11907 11889 11889 11907 11907 11907 11893 11893 11893 11907 11907	1903 1903 1904
74x35 106x30 138x32 135x22 101x32 77x22 136x36 84x17 98x28 84x26 1136x36 101x63 101x61 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27 11x25 84x27	109×34 109×34 125×30 122×29 122×29
337 1737 1737 1737 1737 1737 1737 1737	362 362 420 355 355
403 325 280 88. 88. 80 617 170 170 173 102 85 85 85 85 85 85 85 85 85 85 85 85 85	362 362 355 355
Dge No. 2         403           Drl No. 2         325           Scw No. 2         280           Bge No. 3         88           Bge No. 3         80           Bge No. 3         80           Drl No. 3         318           Drl No. 3         234           Scw No. 4         420           Bge No. 4         420           Bge No. 4         420           Bge No. 4         420           Scw No. 4         420           Bge No. 4         420           Bge No. 5         173           Scw No. 5         85           Scw No. 5         85           Scw No. 6         85           Scw No. 6         85           Scw No. 6         85           Scw No. 6         85           Scw No. 8         85           Bge No. 8         194           Scw No. 8         194           Scw No. 8         194           Scw No. 8         1	Scw No. 9

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Name and Address of Owner or Manager.	0 Wm. Osborn, Duluth, Minn. 2 Charles F. Hartman, Duluth, Minn. 2 Buffalo Dredging Co., Buffalo, N. Y. 1 M. Sullivan, Buffalo, N. Y. 2 Detroit Dredging Co., Detroit, Mich. 3 Sherburn M. Becker, Mayor, Milwaukee, Wis. 3 Cherroit Dredging Co., Detroit, Mich. 4 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 5 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 6 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 9 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 1 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 1 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 1 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 2 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 3 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 4 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 5 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 6 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 7 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 8 Lake Sup. Cont. & Dredg. Co., Duluth, Minn. 9 Lake Sup. Cont. & Dredg. Co., Duluth, Minn.
Year Built	1888
Keel Beam	43x16 33x14 126x31 126x31 100x26 100x26 99x24 67x18 100x26 100x26 100x26 100x26 100x27 100x26 1115x26 1115x26 1118x26 118
Net Ton- nage	427 427 427 427 427 427 427 427
Gross Ton- nage	427 427 427 427 427 427 427 427 427 427
Vessel.	No. 13. No. 14. No. 14. No. 14. No. 15. No. 15. No. 15. No. 15. No. 17. No. 17. No. 17. No. 22. No. 23. No. 24. No. 29. No. 29. No. 29. No. 29. No. 29. No. 29. No. 39.
Class.	BER

1905 U. S. Engineers' Dept. 1901 H. B. Van Dresser, Alexa 1895 E. L. Thompson, Detroit, N 1898 C. H. Morgan, Chicago, 1900 Emilie Redmyr, Duluth, 1901 Geo. Robinson, Chicago, III.	3 2 2 2 2 3 3 3 3	1893 Chris 1894 Norti 1894 Lake 1894 Lake 1898 Mutt 1899 Fred 1889 Mutt 1889 Char 1889 Char 1889 Char 1890 W. 1902 U. S 1901 Jay 1869 J. M
67×15 98×15 96×24 42×11 50×14 30×11	. 4440 0	32x10 358x44 299x40 97x40 299x40 299x40 65x17 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 299x40 290x30 290x30 200x3
48 113 113 114 117 117	7 19 430 3705 589 239 27 1885	2339 1885 1885 1885 1885 1885 1885 7 7 7 7 7 7 7 7 82 83 82 83 1885 1885 1885 1885 1885 1885 1885 1
Str         Noble, Alfred         50           Str         No-Komis         62           Bge         Nolan, T.         L.         113           Scy         Nomad         15         Sch         15           Sch         Nordkyn         23         Scy         7           Gas         Norma         7         7           Gas         Norma         12         7	** ++ ++	Sch North Star 6  Sty ‡North West 4244  Str ‡North Wind 2476  Bge Northwestern 256  Str ‡Northern King 2476  Str †Northern Light 2476  Str †Northern Queen 2476  Str †Northern Wave 2476  Gas Norton, B. 9  Str †Northern Wave 2476  Gran Northern Wave 2476  Str †Northern Wave 2476  Str †Northern Wave 2476  Gas Norten, B. 9  Str †Northern D. Z 5667  Str †Nortingham, Wm. 4234  Str †Nortingham, Wm. 4234  Ylt Nourmahol 6  Scb Novetty 106  Bge Novetty 106  Str †Northern 2424

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CLASS.	VESSEL.	Gross Net Tonnage	Net Tonnage	Keel Beam	Venr Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str Sty Str	Nyanza	2296 4310 6	1870 3365 6	280x41 84x16 380x50 32x 9	1890 1890 1902 1899	Jas. McBrier, Erie, Pa. Rebuilt 1904. Ray V. Pierce, Buffalo, N. Y. Arthur H. Hawgood, Cleveland, O. William H. Miller, Chicago, Ill.
	0					
Str Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch	Oades, John Oak Leaf Oak Leaf Oceanica Oclemena Oddanah Ogden, Wm. B Ogdensburg Ogenaw Oggel, E. C. Oglebay, E. W. Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio	1454 395 395 395 1490 1490 2329 232	1225 375 82 1241 109 3588 62 62 83 167 3019 107 3019 83 3818 3818 3818 3818 3818 198 381 198 381 198 381 198 381 199 199 199 199 199 199 199 199 199 1	212x36 160x31 86x24 202x37 3x18 420x55 8xx5 8xx5 49x12 110x40 110x40 110x40 110x40 1129x43 17x14 77x14	1890 1890 1890 1890 1900 1881 1881 1890 1900 190	Michigan, Indiana & Illinois Line, Chicago, Ill. Sturgeon Bay Stone Co., Sturgeon Bay, Wis. Daniel Monroe, Gibraltar. Mich. Tonawanda I. & S. Co., N. Tonawanda, N. Y. Lackawamnan, Ogdensburg, N. Y. Lackawamnan Steamship Co., Buffalo, N. Y. James Magee, Duluth, Minn. Wm. Christie, Detroit, Mich. Abandoned. Western Transit Co., Buffalo, N. Y. Simon Schetcht, Erie, Pa. J. C. Gilchrist, Cleveland, O. M. R. Pickands, Cheboygan, Mich. Oscar Jarsch, Duluth, Minn. M. R. Callahan, Cleveland, O. Mrs. Maude A. Sherman, Port Henry, N. Y. M. Sullivan, Buffalo, N. Y. Duluth-Superior Dredge Co., Duluth, Minn. E. W. Crapo., Sackett's Harbor, N. Y. Wilson Transit Co., Cleveland, O. Adam W. Kunna, Alpena, Mich. Whitney Bros. Co., W. Superior, Wis.

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CLASS.	IS. VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tu	Tug †Osborn, Chase S	. 492	334	128×25	1906	First National Bank, Detroit, Mich.
ŢŞ.	Str #Osborne, F. M4309	.4309	3377	380×50 50×13	1905	_
S	Oscoda	. 529	345	175x32	1878	Edward Hines Lumber Co., Chicago, III.
Str	O'Shanter, Tam	83	Ξ	49×14		Lake Erie Dredging Co., Buffalo, N.Y.
<u>કે</u>	t Oshkosh	16	11	48x 8	1903	Gabriel Streich, Oshkosh, Wis. Nee Grafar-
7		,	5	7212	500	W IV Wombound Alemandaile Dans M V
77.0		25 11	73	0917	2021	W. fr. Wenborne, Alexandria Bay, Iv. 1. Rochester Securities Co. Pochester N. V.
2	Osweso	110	9	2071	1001	Out of Com.
Str	Otis, John	. 301	254	$147 \times 32$	1864	Detroit
Str	_	94	64	$106 \times 20$	1884	St. Lawrence River Steamboat Co., Cape
1						Υ.
Sch	Ottawa	. 163	155	115x25	1874	Claus Weberg, Marinette, Wis.
Str	_	. 18	15	48×12	1900	Frank A. Passeno, Chebovgan, Mich.
Sch		. 720	684	$182 \times 35$	1875	John W. Robinson, N. Tonawanda, N. Y.
Ş	_		<b>~</b>	60x10	1895	D. H. Lvon, Ogdensburg, N. Y.
Sty			2	61×11	1892	A. E. Bonsfield, Bay City, Mich.
BR			£	51x16	768 186 186 186 186 186 186 186 186 186 1	C. G. Emery, Clayton, N. Y
Bg.		.43	43	89×22	1881	Walter S. Lloyd, Duluth, Minn.
<u>S</u>		ب ا	ِ ا	27×11	000	F. D. Porter, Chicago, III.
Str	‡Owana	747	420	200×32	1899	
St		.2611	1940	325x41	188	
r.		7512	1609	2×1×41	Ž	
Š		: 74	206	196x34	1893	Argo Steamship Co., Cleveland, O.
ť.		. 159	105	90×15	1803	Edgewater Lighterage Co., Buffalo, N. Y.
Z,		. 14	14	36x13	1907	P. B. Hartman, Alexandria Bay, N. Y.
	۵					: :
ć		9				
Tug Tug	Pacific	2430	1929 25	28/x42 63x15		1890 Keid Wrecking Co., Sarnia, Ont. 1876 D. E. Stevens, Duluth, Minn.

1882 Tonawanda Iron & Steel Co., N.Tonawanda, N.Y. 1875 Calvin Pooler, Jr., Sheboygan, Wis. 34 1876 Page Transportation Co., Duluth, Minn. 180 1883 Alfred W. Graham, Fish Creek, Wis. 20 1965 Hutchinson & Co., Cleveland, O. 21 1965 Hutchinson & Co., Cleveland, O. 25 1893 James Davidson, W. Bay City, Mich. 26 1873 L. S. Sullivan, Toledo, O. Rebuilt 1900. 27 1900 Pittsburg Steamship Co., Cleveland, O. 28 1896 Mary L. Denmarsh, Mt. Clemens, Mich.		1888 1898 1892 1892 1896 1863 1906
225x35 96x22 194x34 155x30 79x20 480x52 211x35 67x15 67x15 57x 8	130x42 356x50 42x12 72x20 247x35 44x12 241x41 134x27 552x56 60x16 60x16 45x12 36x12 36x12	60×10 55× 9, 94×16 340×42 133×18 69×15 38×10 123×24
962 96 670 670 290 45 4435 994 17 1609	310 2778 89 1140 1140 144 987 289 5049 15 15 138	13 17 29 1761 111 19 11 19
Str         Packer, Harry E 1142           Sch         Packard, Mary E 101           Sch         Page, Marion W 762           Str         Pallow, Louis         306           Sch         Paige, S. B.         47           Str         Paine, William A 5798         5798           Sch         Palister         84           Str         Palister         84           Str         Palister         84           Str         Palos         11	Pan American No.   12   15   15   15   18   18   18   18   18	Str         Pastime         20           Str         Pastime         24           Sty         Pastime         49           Str         FPathfinder         2424           Sty         FPathfinder         159           Tug         Pathfinder         38           Gas         Paul         12           Str         Paul         12           Str         Paul         147

i	Mngr., Mil.	nd, O. veland.  randa, N. Y. Co., Ogdens	O. Innes, Secy., III. Kee, Mich. Mich. Gton, Mich. Gton, Mich. Gron, Mich. Gron, Mich. Gron, Mich. Gron, Mich.
NAME AND ADDRESS OF OWNER OR MANAGER	H. McMorran, Port Huron, Mich. Charles H. Jessup, Cleveland, O. E. J. Frifield, Toledo, O. Peavey S. S. Co., Duluth, Minn. Calumet Trans. Co., F. W. Smith, waukee, Wis.	ing Co., Clevelar ockport, III & T. Co., Cle E. City, Mich. St. Clair, Mich. ebewaing, Mich. S. Co., N. Tonaw	U.S. Cooperage Co., Cleveland, O. The Lake Transit Co., H. L. Shaw, Mgr., Bay City, Mich. Joseph C. Ford, Fruitport, Mich. Mich. Salt Trans. Co., B. P. Barnes, Secy., Barry Bros. Trans. Co., Chicago, III. Michigan Salt Trans. Co., Manistee, Mich. Pere Marquette S. S. Co., Detroit, Mich. Pere Marquette S. S. Co., Ludington, Mich. Pere Marquette S. S. Co., Ludington, Mich. Graham & Morton Transp. Co., Chicago, III. Graham & Morton Transp. Co., Chicago, III.
	8 H. McMorran, F. Charles H. Jess T. E. J. Fifield, Tol I Peavey S. S. Co. I Peavey S. S. Co. S. Calumet Trans. waukee, Wis.	3 Great Lakes Tow 6 W. H. Wallace, I 5 Kelley 1st. Lime 7 H. Sicken, Marin 2 H. Lee Borden, S 1 C. W. Dutcher, S 9 Tonawanda I. & S 11 Ogdensburg Co.	0 U S. Co. S. The Lal Bay 4 Joseph (7 A Mich. Barry B Michigan B Michigan B Michigan B Michigan B Fere Ma 11 Pere Ma 13 Pere Ma Michigan B Mich
Y ear Buils	80 2 8 2 8 8	888888888	1895 1894 1887 1888 1904 1901 1901
Keel Beam	174x32 20x11 65x16 430x50 430x50 252x40 43x13	76x18 100x17 170x36 148x30 74x13 92x20 239x38 160x35	134x27 442x44 442x44 192x35 190x32 130x36 130x26 332x53 338x56 338x56
Gross Net	475 5 30 3871 3861 1572 8	296 296 389 35 1085	218 3530 617 678 680 1296 192 192 11317 1685 11722 1722
Gross	639 5 31 5002 4997 1809 17	76 346 346 346 346 346 347 394	254 4077 827 924 261 261 2531 1938 2775 2809
V MOSHL.	Pawnee 639 47. Pearl 5 1 3 3 4 4 4 4 5 4 4 5 4 5 4 5 4 5 4 5 4 5	Peerless Peerless Peerless Pellett, J Pendell, Penclope Penniman Penniman	Sch Penobscot Str Pentland Str P. Marquette 3 Str P. Marquette 4 Str P. Marquette 6 Str P. Marquette 6 Str P. Marquette 6 Str P. Marquette 14 Str P. Marquette 16 Str P. Marquette 16 C. F. P. Marquette 16 C. F. P. Marquette 16 C. F. P. Marquette 18 C. F. P. Marquette 18
OLASB.	Str Str Str	Sch Christian Sch	Sept.

Pere Marquette S. S. Co., Ludington, Mich. Pere Marquette S. E. Co., Ludington, Mich. Joseph B. Blake. Buffalo, N. Y. Bunham Towing & Wrecking Co., Chicago, III. Walter H. Singer, Duluth, Minn. C. G. Emery, Clayton, N. Y. George Kemp, Sault Ste. Marie, Mich. Paul North, Lakewood, O. Pittsburg Coal Co., Cleveland, O. Rebuilt 1902. Pittsburg Steamship Co., Cleveland.	D. H. Persons, Burlato, N. Y. E. B. Chesbrough, Emerson, Mich. O. W. Blodgett, Bay City, Mich. J. O. Nessen & Co., Manistee, Mich. Frank E. Willard, Chicago, III. Chicago-South Haven Line, Chicago. Philip Mago. Tonawanda, N. Y. Theodore Nelson, Sheboygan, Wis. Ernest Venn, Detroit, Mich. Leatham & Smith, Sturgeon Bay, Wis. Name changed to Tomah. Name changed to Tomah. Frank Phelps, Chatmont, N. Y. Frank Phelps, Chatmont, N. Y.	Frank Jennings, New York City. Frank Jennings, New York City. Pittsburg Steamship Co., Cleveland, O. Great Lakes Construction Co., Buffalo, N. Y. Henry B. Lothrop, Detroit, Mich. Geo. B. Taylor, Erie, Pa. Charles G. Emory, Clayton, N. Y. Charles G. Emory, Clayton, N. Y. Charles G. Emory, Clayton, N. Y. E. M. Carson, Manistique, Mich. Oscar Hurkett, Au Sable, Mich.
1903 1896 1898 1889 1889 1905 1905 1905 1905		1884 1905 1902 1902 1902 1906 1906 1887 187
338×56 387×56 14×18 80×20 85×10 45×13 128×25 74×17 165×36	203x34 201x34 182x32 190x33 171x30 52x14 90x23 56x15 135x26 135x26 135x26 135x26 135x26 135x26 135x26 135x26	240x38 95x17 580x58 55x 8 54x 8 181x32 61x22 50x18 54x15 48x14
1495 1634 142 42 9 9 16 16 337 44 4922 4922	559 573 573 561 584 574 747 747 747 747 753 753 753	1035 119 119 5450 505 57 32 32 32 11
TP. Marquette 20 2 Perew, John Perfection Perhaps Permelia ** Perry, Frank Perry, Oliver H Perry, Wm. G. **	Persons Sons, Persons Peshtigo Peshtigo Peters A. Peterson, A. Peterson, Petrel Phantom .	Str Phenix

CLA8S.	VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str. Tug Sylvent T	Pilgrim   299   Pilot   9   9   Pilot   9   9   9   9   9   9   9   9   9	299 9 9 9 388 388 388 388 388 112 112 419 5519 5619 16 3562 118 406 24 489 5619 16 17 16 17 18 11 11 11 11 11 11 11 11 11	256 8 8 115 13 171 146 11 12 12 12 13 15 15 15 15 16 17 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	119x23 26x12 61x10 137x28 256x35 226x35 38x10 128x51 128x5	1888 1889 1899 1899 1899 1899 1903 1877 1877 1877 1877 1877 1889 1889 1889	C. W. Thompson, Mgr., St. Clair, Mich. Lost. John Hendy. Sault Ste. Marie, Mich. F. A. Magel. St. Louis. Mo. John Hickler, Buffalo, N. Y. The Standard Contracting Co Cleveland, O. Cleveland-Cliffs Iron Co Cleveland, O. George B. Taylor, Erie, Pa. C. E. Benham, Perry-Payne Bldg., Cleveland, O. Wm. Wilson, Erie, Pa. C. E. Benham, Perry-Payne Bldg., Cleveland, O. Wm. Wilson, Erie, Pa. D. B. I. & W. F. Co Detroit. Mich. Martin Leidheiser, Vermillion, O. Martin Leidheiser, Vermillion, O. Pittsurge Steamship Co Cleveland, O. Pittshurg Steamship Co Cleveland, O. Pittshurg Steamship Co Cleveland, O. Thos. M. Roan. Buffalo. N. Y. Angus McLeod, Sodus Point. James Corrigan. Cleveland, O. J. W. Gillingham, Bay Port, Mich. The Lake Transit Co., H. L. Shaw, Mgr., Bay City, Mich. Lake Sup. Con. & D. Co Duluth. Minn. Lake Sup. Con. R. D. Co Duluth. Minn.
	Port Huron	151	151	91x30	1891	Lake Sup. Con. & D. Co., Duluth, Minn.

1903 Leatham & Smith Towing & Wrecking Co., Sturgeon Bay, Wis.	C 6.6.6	Buff The L. Z	A. C. Pr. Loui Loui Loya	John J. Boland. Buffalo. N. Y. Rebuilt 1902. Rutland Trans. Co Ogdensburg. N. Y. John Nordrum, Charlevoix, Mich. Mirsburg Steamship Co. Cleveland, O. J. Everett. Chicago, III. Burns Bros., Detroit, Mich. Geo. H. Worthington, Cleveland, O. Geo. Hall Coal Co Ogdensburg. N. Y. Dunham Towing & Wrecking Co., Chicago, III. Edward Gillen, Racine, Wis. Dunham Towing & Wrecking Co., Chicago, III. Wm. Hendrickson, Sandusky, O. Rebuilt 1904. H. T. Dunbar. Buffalo. N. Y. The Lake Champlain Transportation Co.,	James Pryor. Houghton, Mich. Addie W. Chesebrough, Bay City, Mich.
1903	1894 1871 1870	1887 1903 1899 1888	1885 1898 1907 1897	1875 1907 1907 1900 1988 1888 1889 1892 1892 1893 1873 1873 1873 1873	1890
198×38	36×11 48×11 133×27	78x20 105x27 36x 9 272x40	167×32 407×50 61×18 72× 9	221×36 24×42 32× 9 454×50 60×13 160×13 174×20 85×21 255×37 119×38 77×15 119×38	45x12 88x16
722	5 11 265	66 121 7 1642	398 3570 35 15	838 11 11 3820 12 839 71 71 58 71 71 58 30 130 30 113 135 113 113 113 113 113 113 113 113	င. ထွ
Porto Lapidum 722	Post Boy 11 Potawatomie 18 Potter, Agnes L 279	Potter, Geo. R 133 Powell, L. G 143 Prairie 7 Pratt, Pascal P1927	Prentice, James H. 535 ‡Presque Isle4578 Presque Isle 41 Presto 22	Pridgeon, John Jr. 11 Prince, F. H. 20 Prince Olof Trinceton Prindiville, R. 4 Priscilla Proctor, Wm. L. 1 Prodigy Progress Progress Protection Protection Protection Protection Protection Protective Policy 3 Protector 1	Pryor, Ethel J 18 Pryun 56
Scb	Str Tug Sch	Tug Dge Sly Str	Str Str Gas Sty	Str Gas Str Tug Str Tug Str Str Str Str Str Str Str Str Str Str	Stp

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Manager.	Wis. alo, N. Y. Thicago, Ill.	ebuilt 1902. Y. d. O. Y. is. o., Chicago, Ill	oard of Trade, lich. On, O. ch. Mich. N. V. Pahuile
Name and Address of Owner or Manager.	F. W. Smith, Mngr., Milwaukee, Wis. J. A. Jacobs, Washburn, Wis. M. Green, Charlevoix, Mich. John P. Harrington, Erie, Pa. Lake Erie Dredging Co., Buffalo, N. Graham & Morton Trans. Co., Chicago, S. O. Richardson, Toledo, O.	M. A. Bradley, Cleveland, O. Rebuilt 1902. John L. Clyde, Buffalo, N. Y. Jas. Stokan, Cheboygan, Mich. Pittsburg Steamship Co., Cleveland, O. W. J. Hingston, Buffalo, N. Y. James Erickson, Milwaukee, Wis. John J. Sullivan, Detroit, Mich.	1891 Lake Superior Con. & D. Co., Board of Trade, Duluth, Minn. 1847 Frank J. Benish, Menominee, Mich. 1894 Charles A. Mattison, Vermillion, O. 1871 Henry Wineman, Jr., Detroit, Mich. 1874 F. W. Gilchrist, Alpena, Mich. 1889 Cablick Trans. Co., Chicago, III. 1889 Charles Osborner, Marine City, Mich. 1886 Charles Osborner, Marine City, Mich.
Year Built	1891 1894 1894 1892 1894 1901 1900 S	1872 M 1889 Jo 1897 G 1896 Pi 1896 V 1906 V 1881 D	18847 18847 1886 1986 1986 1986 1986 1986
Keel Beam	225x36 61x15 45x11 59x13 70x19 259x40 58x14	182×32 93×17 50×14 44× 9 401×48 53× 5 140×25 41× 5	81x16 106x22 46x12 227x34 60x15 211x37 1137x26 1137x26
Net Ton-	1054 19 6 10 5 1267 15	650 108 19 9 3198 17 268 5	25 125 1104 21 247 247
Gross Ton-	1349 39 13 20 1762	722 135 29 3979 24 24	50 131 15 15 42 964 260
Vessel.	Pueblo Pullar, Jim Pup Puritan Puritan Puritan	Quayle, Thomas Queen Queen Queen Anne Queen City Queen City Quickstep Quickstep Quickstep	Tug Raber, Violet H 50  Sch Raesser, Lydia E 131  Tug Rainbow 1205  Str Raleigh 1205  Str Ralph, P. J 964  Sch Ralson, Jane 260  Sch + Pomono
Class.	Str Tug Tug Tug Str 3 Str 1	Sch Sch Str Str Tug Sch Tug	Tag Sch Tag Str Sch

1887 Henry P. Burgard, Buffalo, N. Y. 1886 Thousand Island Stbt. Co., Cape Vincent, N. Y. 1886 J. C. Miller, Marine City, Mich. 1908 Triton S. Co., J. R. Davock & Co., Mgrs.,	M. Friel	95 James Davidson, W. Bay City, Mich. 96 W. H. Havens, Ashtabula, O. Rebuilt 1901.	<ul> <li>Jacken, Mngr., Marne City, Mich.</li> <li>Raples, Duluth, Minn.</li> <li>Pittsburg Steamship Co., Cleveland, Ohio.</li> <li>Dunbarg Steamship Co., Cleveland, Ohio.</li> </ul>	N. Y. 1892 H. Van Elis, Port Washington, Wis. 1802 Kelley Island L. & T. Co., Cleveland. 1884 Great Lakes Towing Co., Cleveland. O.	04 W. O. Jones, Oshkosh, Wis. 90 Edward Hines Lumber Co., Chicago, III. 73 O. W. Blodgett Bay City, Mich.	1887 F. Wallace, Au Gres, Mich. 1903 Provident Steamship Co., A. B. Wolvin, Mngr., Duluth Minn	1896 Wilson Transit Co., Cleveland, O. 1881 Wm. J. Hunkin, Cleveland, O. 1906 Olev. Grob. Shebovozan, Wis.	00 Mitchell & Co., Cleveland, O. 80 Thomas Isabell, Sturgeon Bay, Wis.		
110x25 18 95x13 18 119x25 18 420x52 19										•
			144×30 56×12 580×58 175×25			70x16 448x52	396x45 132x29 76x22	416x50 91x22	146x30 37x 9 45x15 71x16	:
193 28 147 3505		1911	<b>3</b>	232 332 30		36 4125	2992 274 59	3154 44	323 9 18 20 151	1
Bge Rambler         193           Sty ‡Ramona         57           Str Rand         191           Str ‡Ranney, Rufus P4797	Str Ranney, Rufus P. 1627 Sch Ransom, Harvey 28	Rappahannock Raser, George B.	Sch Rawson, Levi 361 Str Ray, Lulu M 27 Str ‡Ream, Norman B. 7053 Scw Reciprocity 446	Str Reckinger, P. 42 Str Recor, E. P	Redfield, Jr. Redfern, C. E	Sch Red, White & Blue 38 Str ‡Reed, J. H5598	Str ‡Rees, W. D3760 Bge Reid, Conrad 288 Str Reis, Peter 95	Str ‡Reis, Wm. E4748 Str Reliable 97	Str Reliance       480       323       1         Gas Reliance       15       9         Sch Reliance       18       18         Str Relief       34       20         Brance       150       151	Weller

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%	. 58 34	74×15	1886	David Cottrell, Chicago, Ill.
2323	1697	287×40	1888	
2991	2052	291×40	• • •	
. 894 37	8×	180×36 60×15	<u>ặ</u>	Great Lakes Towing Co., Cleveland, O.
. 894	1967	180×37	15	Union Towing & Wrecking Co., Duluth, Minn.
. 17	12	31×12 39×16	≋ <u>∞</u>	39 L. H. Ware, Cleveland, O. 88 Ralph L., Fuller. Cleveland. O.
= 6	9	37×12	80,5	Louis Cole, Cheboygan, Mich.
1895	278 1604	143x29 255x40	1890	K. Knox, Ford Kiver, Wis. Lake Erie Trans. Co. (A. W. Colton). Toledo. O.
2	<b>∞</b>	38×10	1904	H. G. Hanrath, Frankfort, Mich. (Lost).
. 16	17	57×12	1895	Claude Thompson, Boyne City. Mich. Out
570	416	$166 \times 32$		
937	891	217x35		Thomas McGowan, Jr., Detroit, Mich.
4871	3586	420x52		
9176	1340	242×42	1900	Mutual Transit Co., Buffalo, N. Y.
88	જ	61x15	1888	
Rice, Owen 16	14	47×14	1903	Herbert J. Knight, Erie, Pa.
2018 2018	č	75×17	1901 1901	
		47x13	1884	
208		120×25	1861 1961	
242	38	127721	15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	Lake & River Sand Co.,
96. 6	86	108×18	1889	A. A. Holmes, Redwood, N. Y.
. 92	9	01×10	10/0	Lake Superior Con. & D. Co., board of Irade,
Rembha Rend, Wm. P.  ‡Renssalaer TRescue Rescue Rescue Result Rhodes, Joshua W. Rhodes, Joshua W. Rhodes, W. Castle Rice, Owen Richard B.  ‡Richard B.  ‡Richard B.  ‡Richard B.  ‡Richard B.  ‡Richard B.  †Richard B.  †Ri	Sty         Rembha         58           Str         Rend, Wm.         P.         2323           Str         Rescue         894           Ltr         Rescue         894           Tug         Rescue         894           Sty         Result         17           Sty         Result         17           Sch         Result         11           Sch         Result         11           Sch         Result         11           Sch         Resumption         293           Str         Rhocan         16           Str         Rhocan         16           Str         Rhodes, D. P.         937           Str         Rhodes, D. P.         937           Str         Rhodes, D. P.         937           Str         Richard B.         63           Str         Richard B.         63           Str         Richardson, W. C. 3818           Str         Richardson, W. C. 3818 <td>2 2</td> <td>34 1697 1697 198 790 108 790 177 177 177 177 178 189 193 193 193 193 193 193 193 19</td> <td>34 74x15 188 1697 287x40 188 2052 291x40 189 1790 180x36 190 170 180x37 190 17 39x16 188 18 127x2 188 18 38x10 190 12 57x12 188 19 57x12 188 19 57x12 188 19 61x15 188 19 61x15 188 19 61x15 188 19 75x17 190 20 11x1 188 20 11x1 188</td>	2 2	34 1697 1697 198 790 108 790 177 177 177 177 178 189 193 193 193 193 193 193 193 19	34 74x15 188 1697 287x40 188 2052 291x40 189 1790 180x36 190 170 180x37 190 17 39x16 188 18 127x2 188 18 38x10 190 12 57x12 188 19 57x12 188 19 57x12 188 19 61x15 188 19 61x15 188 19 61x15 188 19 75x17 190 20 11x1 188

1897 C. G. Emery, Clayton, N. Y. 1866 M. D. Olds, Cheboygan, Mich. 1893 F. Dana, Alexandria Bay, N. Y.	1899 ———, La Crosse, Wis.	1905 W. H. Becker, Cleveland, O.		1899 Milwaukee Sand & Gravel Co., Milwaukee, Wis.	1884 Zenith Dredge Co Duluth Minn	1868	^		1806 Pittsburg Steamship Co., Cleveland, O.	<b></b>	85.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18	1889		1905 Tonawanda Iron & Steel Co., N. Tonawanda,	1880 Horbort Dochky Burlington 174	1882	1900	1801	1870 Western Transit Co., Buffalo, N. Y.	1867 Hiram H. Smith, Buffalo, N. Y. Formerly	1807 Dammer Filers No Muckenson Mich	1873 I. S. Sullivan Toledo O. Debuilt 1909	1906 Indiana Trans. Co., Clark st. bridge, Chicago.	Cream City Sand Co., Milwaukee, Wis.	1871 Great Lakes Towing Co., Cleveland, O. Rebuilt 1885.
41x13 82x17 84x19	70×10	380x50	138x31	133×31	62×15	98×22	381×50	: McLo	366×45	62×15	436x50	77x18	580×58	525x55	06v17		57x13	64	265x36	140×26	22.10	40×19	289x40	$114 \times 24$	81x15
<b>514</b> 8	880	3036	261	88	8	6	3855	Iney C	2013	22	4447	33	5444	5101	101	4	101	1875	1721	586	c	, M	1330	161	67 68
Sip Rival 10 Tug River Queen 82 Str Riverside 124	Roann	Str ‡Robbins, F. L4222	Sch Roberts, E. C 273	Str Roberts, John 355	Tuo Robinson Duncan 37		Str ‡Rochester4571			Tug ‡Rocket 39	Sch #Roebling, John A. 4693	Rogers,		3 Str ; Rogers, W. A 6574	Cht Rogers W S & A I 106	Tug Rollar, Wm 28	Roma	‡Roman2	Str Rome1847	Sch Romeo 298	Set Demilder	Tire Dooner Wim E 11	Str ‡Roosevelt, Theo1955 1330		Tug Rooth, W. A 48

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CLABS	TEBEL.	Gross	Gross Net	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Rosa Belle 131 Rosaline 38	131	125	100x26 61x16	1863 1889	1863 N. P. Peterson, Sheboygan, Wis. 1889 Great Lakes Dredge & Dock Co., Chicago.
Gyt Str	Rosamond. Rose, D. F.	See Vanadis.	s. 203	140x26	1868	1868 Grace E. Robertson, Manistique, Mich. Out
Sch Sch			23	75x14 57x16 77x18	1893 1871 1887	P. F. Lardie, Mapleton, Mich. Bennie Conchey, Erin, Mich. John Devine, Jr., Sturgeon Bay, Wis.
Str Str	Ross, Myrtie M Rough Rider	. =	108 1441	$\frac{113 \times 20}{38 \times 10}$	1890 1904 1887	H. McMoran, Port Huron, Mich. Rebuilt 1902. Albert Fairchild, Frankfort, Mich. W. C. Richardson, Cleveland. O.
Scb Sty		112	92 47	95x17 36x11 96x16	1887 1897 1905	James J. Pendergast, Buffalo, N. Y. John Hayward, Alexandria Bay, N. Y. D. P. McOueen, Schenectady, N. Y.
Str Tug Tug	Rowirs Roy, F	233	24 112 123	56x14 54x14 51x14	1900 1891 1889	Ranney Fish Co., Cleveland, O. I. Lincoln, Alpena, Mich. Con. Smith, Manistee Mich.
Str			203 209 500	54×14 145×23 216×35	88 88 88 88 88 88 88 88 88 88 88 88 88	Great Lakes Dredge & Dock Co., Chicago. Charles B. Moiles, Saginaw, Mich. Geo Hall Coal Co. Ordenshirg N. V.
Tug	_	138	<b>8</b>	99×19	188 88	Isaac Zess, Sault Ste. Marie, Mich. Disman-
Str 1 Bge		4978	3770 20 18	462x50 30x18 58x15	1905 1895	J. C. Gilchrist, Cleveland, O. Candler Dock & Bridge Co., Detroit, Mich. Great I ales Towing Co. Cleveland O.
Str Str Sch Str	Runnells, H. E Russia Russian	889 1501 805	629 1334 290 666	178×35 231×35 137×26 201×33	1893 1872 1862 1873	

1902 Geo. Moon. Buffalo. N. Y. 1906 Western Transit Co., Buffalo, N. Y. 1890 Joseph E. Ryan, Buffalo, N. Y. Formerly	Geo. W. Denniers. 1881 Gus Kitzinger, Manistee, Mich. 1883 William Brinen, Muskegon, Mich.		1889 Argo Steamship Co., Cleveland, O. 1895 James Davidson. W. Bay City, Mich. 1883 Arthur K. Pringle, Chicago, Ill. 1898 Huron Barge Co. (P. M. & Co.), Cleveland, O. 1896 Huron Barge Co. (P. M. & Co.), Cleveland, O. 1866 Frank S. Upton, Charlotte, N. Y. 1904 G. A. Tomlinson, Duluth, Minn. 1891 The Hart Trans. Co., Sturgeon Bay, Wis. 1867 Atlantic Coast S. S. Co., Niagara Falls, N. Y. 1897 Mutual Transit Co., Buffalo, N. Y. 1897 William Savides, Spring Lake, Mich. 1898 Teagan Bros Detroit. Mich. 1905 Kelley Isl. Lime & T. Co., Cleveland, Cleveland, O. 1880 Teagan Bros Detroit. Mich. 1905 Kelley Isl. Lime & T. Co., Cleveland, O. 1897 Way H. Flood, Chicago, Ill. 1898 C. S. Osborn. Sault Ste. Marie, Mich. 1899 Pickands, Mather & Co., Agts., Cleveland, O. 1887 W. B. Ullmann, Chicago, Ill. 1898 J. J. Albright, Buffalo, N. Y. 1888 J. J. Albright Buffalo, N. Y. 1889 Champlain Trans. Co., Buffalo, N. Y. 1890 Champlain Trans. Co., Buffalo, N. Y. 1891 Lehigh Valley Trans. Co., Buffalo, N. Y. 1893 Jas. Davidson, W. Bay City, Mich.	
64×15 242×43 93×17	52x14 66x17		187.x83 308.x42 39.x11 369.x45 218.x32 194.x52 91.x24 : 5.3x.x2 5.3x.x2 5.4x.11 76.x15 101.x27 30.x21 76.x15 101.x27 30.x21 76.x15 101.x27 30.x21 76.x15 101.x27 30.x21 40.x27	
48 1668 88	<b>4</b>		542 1903 2926 2926 456 4437 111 1221 20 20 20 20 20 20 20 20 20 20 20 20 20	
Ruth 70 Rutland 2321 Ryan 126	Ryan, Chas. C 28 Ryerson, Carrie A. 72	Ø	Sachem         789           Sacramento         2380           Sadie         3250           Sage, Russell         597           Salor Boy         162           Sallor Boy         162           Sallor Boy         162           Sallor Boy         162           St. Louis         599           4St. Paul         2029           Sallie         2029           Sallie         2029           Sallie         2029           Sallie         2029           Sanders, W. B.         108           Sanders, W. B.         51           Sanders, W. B.         51           Saniac         260           Saphire         260           Saphire         45           Saphire         223           Saphire         223           Saranac         7           Saranac         7           Sardinia         35	
Str Scb	Str		Syrt Syrt Syrt Syrt Syrt Syrt Syrt Syrt	

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CLASS.	SS. VESSEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sty Tug Str Str	Satellite 27  Satisfaction 47  ‡Saturn 3717  Saugatuck 228	27 47 3717 228	14 23 2772 147	77x12 64x16 846x48 110x22	1894 1894 1901 1887	Theo. M. Leonard, Rouse Point, N. Y. J. C. Glichrist, Cleveland, O. Chigo, Saugatuck & Douglas, Trans. Co., John F.
Tug Str Tug	g Saugatuck 88 ‡Saunders, E. N4305 g Savidge, Hunter 20	4305 4305	77 3366 13	84x17 880x50 50x13	1875 1902 1866	Henry, Mngr., Saugatuck, Mich. John P. Nagle, Toledo, O. J. C. Gilchrist, Cleveland, O. Louis Sands, Salt & Lumber Co., Manistee,
170	Sawyer, Philetus . 449 Sawyer, W. H 746 ‡Saxon	449 2348 4716 87	**° ≃ &	152×31 201×37 296×40 416×50 122×14	1884 1890 1903 1888	South Side Lumber Co., Chicago, III. Edward Hines Lumber Co., Chicago, III. Pittsburg Steamship Co., Cleveland, O. G. A. Tomlinson, Duluth, Minn. W. J. White, Cleveland, O.
Str	Tug Schaefer, Phillip G. 29 Tug ‡Schenck, S. C 126 Str Schlesinger, Ferd2607	G. 29 126 2607	89 83 8081	64x14 90x21 305x43	1903 1890 1891	James S. Law, Cleveland, O. Great Lakes Towing Co., Cleveland, O. Wisconsin S. S. Co., D. Vance, Mngr., Milwau-
Sch Str Str	Scholtz Globe 7 Schoolraft 7 Schoolcraft 7 Schroeder, John 3 ‡Schuck, R. E 47	20 28 28 372 372 4713	15 19 595 267 3384	34x10 50x14 180x34 154x29 416x50	1896 1904 1884 1890 1903	96 Harry Vans. 96 Arthur Schoellkopf, Niagara Falls, N. Y. 94 Geo. Nester, Detroit, Mich. 90 Gus Kitzinger, Manistee, Mich. 93 J. C. Gilchrist, Gleveland, O.
Sch Sch Tug	Schultz. L. A	2205 114 10 10 10 25 25		274x40 274x40 39x13 35x12 210x34 76x16 50x15	1882 1894 1894 1894 1904 1904	F. Schramm, Milwaukee, Wis. E. & W. T. Co., Anchor Line, Buffalo, N. Y. Chas. E. Shank, Erie. Pa. R. H. Parkinson, Chicago, Ill. Abandoned. Gray Trans. Co., Cleveland, O. C. A. Peterson, Omro, Wis. Wm. Turgeon, Ashland, Wis.

1890 Great Lakes Towing Co., Cleveland, O. 1861 Evan Neilson, Muskegon, Mich. 1888 Buffalo Transit Co., Buffalo, N. Y. 1991 Mitchell & Co., Cleveland, O. 1990 Mitchell & Co., Cleveland, O. 2000 Nallis F. Parking Comm.		<ul> <li>1895 John Dupee, Oconomowoc, Wis.</li> <li>1893 N. Dues, Cheboygan, Mich.</li> <li>1906 Benjamin Parmelee, Waukegan, III.</li> <li>1897 W. C. Danforth, Ludington, Mich.</li> </ul>	1848 M. O. Parker, Milwaukee, Wis. 1884 O. E. Wilbur, Charlevoix, Mich. (Lost.) 1899 C. F. Mischler, Sandusky, O. 1862 D. C. Stephens, Cleveland.	1906 Mitchell & Co., Cleveland, O. 1896 Wolverine Steamship Co., Detroit, Mich. 1863 Leathan & Smith Towing & Wrecking Co., Sturgeon Bay. Wis.	1889 Lehigh Valley Trans. Co., Buffalo, N. Y. 1875 Ogdensburg C. & T. Co., Ogdensburg, N. Y. 1882 Chicago, Lighterage Co., Chicago, III. 1890 Earl Van Scort, Cleveland, O. 1903 Great Lakes & Et. Lawrence Trans. Co., D. T. Helm, Duluth, Minn.	1906 C. O. Jenkins, Cleveland. 1883 Harris T. Dunbar, Buffalo, N. Y. 1891 Harris T. Dunbar, Buffalo, N. Y. 1900 Pittsburg Steamship Co., Cleveland, O. 1889 E. L. Hedstrom, Buffalo, N. Y. 1873 Huron & Erie Transportation Co., Detroit, Mich.
67x17 1 90x24 1 260x39 1 416x50 1			120×25 1 94×19 1 69×16 1 132×25 1		290×40 90×17 110×22 1110×22 31×12 255×41	480x52 1 60x15 1 65x17 1 435x51 1 178x33 1
27 97 1595 3294	828	32 12 15	558 28 8 56 57 57 57 57 57 57 57 57 57 57 57 57 57	5269 3178 315	1939 38 108 6 920	4665 22 22 54 3802 235 543
Tug Scott, W. L 54 Sch Scoville, E 102 Str ‡Scranton2015 Str ‡Scranton, Walter4803 Str ‡Scranton, Walter4803	Sea Bridge Sea Foam Sea Foam		Seaman Search Light Sea Wing	#Senator Senator	Str ‡Seneca2669 Tug ‡Seymour, Geo. D. 76 Str Seymour, R. A., Jr. Jr. J81 Sly Shamrock	Str ‡Shaughnessey, Sir Thomas 6276 Str ‡Shaughraun 45 Str ‡Shaun Rhue 75 Str ‡Shaw, Howard L 4901 Bge Shawmut 250 Sch Shawnee 571

CLASS.	VESSEL.	Gross Net Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Sheadle, J. H	. 6924	5476	530×56		1906 Grand Island Steamship Co., Grand Island
Stp Tug Tug Str Tug Str Tug Str	Sheboygan Sheboygan Shelby, Edward Sheldon Bros Sheldon, Cora A. Shenandoah	9	461 31 13 11 27 1880 17	208x50 65x17 56x15 44x13 65x16 308x43 58x14	1869 1886 1882 1900 1900 1883 1894	Goodrich Trans. Co., Duluth, Minn. Great Lakes Towing Co., Cleveland, O. Geo. H. Breymann, Toledo, O. Charles Pickett, Erie, Pa. Joseph Croze, Houghton, Mich. James Davidson, West Bay City, Mich. Harris T. Dunbar, Buffalo, N. Y.
Str	Sheritis Jim. Sherman, G. R Sherman, John . Shipman, Allie E Shores, Adella Shores, E. A. Jr. Shrigley, James	A 5 7 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Feters. 92 62 62 62 62 62 62 63 64 68 68 68 68 68 68 68 68 68 68 68 68 68	75x30 163x32 514x54 61x14 195x37 176x34 171x31	1882 1906 1906 1892 1892 1892 1881	Port Henry Steam Ferry Co., Port Henry, N. Y. Geo. Hall Coal Co., Ogdensburg, N. Y. Gilchrist Trans. Co., Cleveland. Chas. H. Greiling, Green Bay, Wis. Estate of S. O. Neff, Milwaukee, Wis. Cleveland Transportation Co., Cleveland, O. Huron & Erie Transportation Co., Detroit Mich.
Str Str Str Tug Gas Str Tug Tug Tug	Sicken, Sidonic Sidonic Sidonic Sidonic Signary Signary Sill, H Sill, H Sill, H Sill, H Silver Silver Silver Silver Silver Silver	o \$\$4.4	168 7 3293 4287 100 3282 17 10 10 10 10 10 10 10 10 10 10 10 10 10	128x26 44x12 413x48 438x52 135x21 416x50 62x15 37x13 44x 9 62x13 62x13 63x13 68x16 83x16	1884 1896 1906 1906 1903 1875 1875 1898 1898 1898 1889	M. Sicken, Marine City, Mich. Minnie Kadau, Sheboygan, Wis. Pittsburg Steamship Co., Cleveland, O. Inter-Ocean Steamship Co., Duluth, Minn. George L. Craig, Toledo, O. J. C. Gilchrist, Cleveland, O. Capt. W. G. Harrow, Detroit, Mich. Sophia Bird, Cheboygan, Mich. Arthur O. Lewis, Middleport, N. Y. F. Martined, Chicago, III. John Lay, Sandusky, O. Mrs. Eva Shaw, Erie, Pa.
Tug	Silver	æ :	56	54×15	1895	Albert F. Peterman, Munising, Mich.

O. E. Wilbur, Charlevoix, Mich. M. J. Bonner, St. James, Mich. Chas. J. Sanderson, Milwaukee. Sophia Meyer, Milwaukee, Wis G. A. Tomlinson, Duluth, Minn. A. B. Wolvin, Duluth, Minn.	1883 Conrad Niederman, Milwaukee, Wis. 1892 W. Habel, St. Joseph, Mich. 1896 A. T. Stewart. Chicago, Ill. N. Y. 1885 Weston U. Cline, Massena, N. Y. 1904 Honduras Development Co., Detroit, Mich. 1890 Chequamegon Bay Trans. Co., Ashland, Wis. 1906 A. Van Duren, Holland, Mich.			1906 W. A. Hawgood, Cleveland, O. 1908 U. S. Trans. Co., Rockefeller Bldg., Cleveland. 1903 Frank E. Nettleton, Dunkirk, N. Y. 1876 Axel B. Dahlmer, Brunswick, N. Y. 1905 U. S. Trans. Co., Cleveland, O. 1909 Great Lakes Towing Co., Cleveland, O. 1909 U. S. Trans. Co., Rockefeller Bldg., Cleveland.
109x21 123x27 127x28 63x19 416x50 74x19	71x16 59x12 50x12 62x12 49x12 89x23 37x15	4.44	46×14 880×50 74×17 95×17 194×32 67×16	525×55 414×50 72×16 50×11 525×55 70×15 414×50
94 195 27 3503 36	8555555	4725 130 551 23	13 3017 39 110 523 16	
Stp Silver Spray 95 64 10 Sch Sin.mons, Rouse 205 195 12 Sch Simpson, Lucia A. 227 215 12 Str Simpson, W. H 49 27 65 Str ‡Sinaloa 4539 3503 41 Str Sinclair, James R. 71 36 7	1 ug       Stoux       52         Str       Siren       18         Str       Siren       22         Gas       Sisama       19         Sty       Skater       92         Gap       Skidoo       18         Gap       Skidoo       18         Gap       Skidoo       18         Gap       Skidoo       18	Sloan, Samuel M., #Smeaton, John 50 Smith Smith, Angus 5 Smith, Annie L	Slp Smith, Augusta 14 Str ‡Smith, B. L4271 Str Smith, Chas. O 63 Scb Smith, Davis & Co. 131 Str Smith, Edward 700 Str Smith, F. E 32	tSmith, Henry B 6 ‡Smith, H. W4  Smith, Janie E  Smith, John  Smith, Lyman C6  Smith, Leathen D.  †Smith, L. C4

CLABB.	V RSBEL.		Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug	tSmith L.	Tug ‡Smith L. P 73	36	67×18	1894	1894 Great Lakes . Dredge & Dock Co., Chicago,
Str	Str ‡Smith, M.	M. C4281	100	380×50	1903	U. S. Trans. Co., Rockefeller Bldg., Cleveland.
Tug	Smith, Sar	Sarah 45		•	1883	Robert L. Osborne, Duluth, Minn.
Tr	Smith, Syc	Smith, Sydney T. 70				M. Sullivan, Buffalo, N. Y.
	Snook, T. W.	: :	25 E	113x24	1873	Harris W. Baker, Detroit, Mich.
Str 1	Socapa	m. f 0959	_			Snenango Sreamship Co., Cleveland, G. A. Tomlinson, Duluth, Minn.
	‡Sonoma	4539	8 3503 5.03	$\begin{array}{c} 416 \times 50 \\ 35 \times 10 \end{array}$	1903 1904	
Sty	1 .	24	12	58x 9	•	Otto Scherer, Detroit,
	Soner All	Sonora3914 Soner Albert349		353×48 143×28	1902 1881	G. A. Tomlinson, Duluth, Minn. Capt. Gus. Mansson, 571 Fifth Ave., Milwau-
:	oper, trades					e. Wis.
Str	Southern Cross	Cross 28		56×14		
Sch	Sch Spademan, Chas	Chas 306	CV	134×25	1873	M. Sicken, Marine City, Mich.
Tug		See David W.				
	tSpaulding,	‡Spaulding, Jesse1043		220x40	1899	Charles F. Spalding, Chicago, III.
	Spencer, C	Spencer, George1360	1082	$230 \times 37$	1884	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Tug	Spencer. Mollie	Collie 53	3 26	$72 \times 16$	1869	Dun
Str	Spokane	2356	<b>:</b>	311x38	1886	•
Tug	Tug tSport	45		56×14	1873	doned. Warren A. Cartier, Ludington, Mich.
Sty	Sport	12	2	48x 7	1885	
Sty	Sport	72	88	84×16		1881 E. P. Wilber, S. Bethlehem, Pa.

Str Reliance. 58x16 1894 Great Lakes Towing Co., Cleveland, O. 62x14 1891 John H. Werner, Lorain, O. Rebuilt 1906. 410x50 1903 Jenkins Steamship Co., Cleveland, O. 504x54 1905 Mahoning S. S. Co., J. S. Ashley, Mgr., Cleve-	1868 Winand Schlosser, Milwaukee, Wis. 1883 Name changed to Manistee. 1886 Hope Trans. Co., J. A. Francombe, Mngr., De- troit, Mich.	1899 Lysander Davidson, Cleveland, O. 1866 Empire Limestone Co., Buffalo, N. Y. Abandoned.	1905 Hutchinson & Co., Cleveland, O. 1883 Whitney Bros. Co., W. Superior, Wis. 1802 Edna W. Troop, Detroit, Mich. 1888 M. J. Stark, Buffalo, N. Y. 1889 Sophia Meyer, Milwaukee, Wis. 1881 Paul H. Hoeft, Rogers City, Mich. 1899 Rose Sterling & Clair Wich.	1897 Henry W. Van Dyke, Escanda, Mich. 1897 Union Steamboat Line, Buffalo, N. Y. Rebuilt 1903, 1883 Cleveland & Buffalo Transit Co., Cleveland, O. 1898 Fred H. Wells, Burlington, Vt. 1903 Fred H. Wells, Burlington, Vt. 1906 W. A. Hawgood, Cleveland, O.	1886 Great Lakes Towing Co Cleveland, O. 1902 J. C. Gilchrist, Cleveland, O. 1901 Henry Steinbrenner, Cleveland, O. 1890 Samuel S. Fifield, Ashland, Wis. 1899 Nelson Bachana, Bayfield, Wis. 1880 J. H. Steller, Buffalo, N. Y. 1882 S. A. Carrow, Cheboygan, Mich. 1896 Pittsburg Steamship Co., Cleveland, O.
Str Reliance. 58x16 1894 62x14 1891 410x50 1903 504x54 1905	112x25 18 202x32 18 184x34 18		504x54 11 58x14 12 51x 9 12 36x 7 12 36x 7 12 65x19 13	• • • • • • • • • • • • • • • • • • • •	
See 23 20 3694 4919		999 144	4668 10 9 7 27 266 98	2067 564 917 5140	37 3366 3955 6 5 106 9
Sch Sprague, H. C. Rebuilt. Tug ‡Sprankle, J. R 44 Tug Sprudel 28 Str ‡Squire, F. B4582 Str ‡Stackhouse, P6171	Sch Stafford	Bge S. O. Co. No. 861102 Bge Stanton, E. M 152	Str ‡Stanton, John6129 4  Tug Stanwood, F. H 18  Gay Star	Gas Starlight	Tug Stedman, Oscar C. 68 Str ‡Steel King4308 Str ‡Steinbrenner, Henry 4719 Sty Stella

1899 1888 1862 1891 1904		1903 Gr 1902 G. 1891 G. 1888 Cli	1892 1888 1905 1890 1890	1897 1898 1889 1891 1887	1886 E. & V. 1902 E. W. 1874 J. C. ( 1896 J. S. S 1888 S. H., 1907 T. La 1887 Albert
31 16 13 41 15 44 41			<b></b>		М. Н. Т.
	. n	2850 350 351 351 351	3845 167 167		C)
Scw         Striker, Geo, H.         31           Tug         Strohn, C. B.         25           Tug         Success         26           Bge         Sucker         41           Scy         Sue Don         18	Suit, Joseph C Sullivan, Hannah ‡Sullivan, J. J7		Tug Sunol 62 Sch Sunrise 26 Str Sunrise 26 Str ESuperior 454 Lt Tug Superior 70	Superior Superior City Surf Surprise Survey Sursie B	++

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		F. R. Barnhardt, Chicago, III. J. C. Gilchrist, Cleveland, O. C. J. Connell, Chicago, III. L. A. Ferguson, Chicago, III. Henry Wineman, Jr., Detroit, Mich. Rebuilt Bedgewater Lighterage Co., Buffalo, N. Y. J. B. Berryman, Chicago, III. Horace J. Conley, Green Bay, Wis. Frank Dant, Chicago, III. White Star Line, Detroit, Mich. M. O. Cluchey, Pentwater, Mich. E. M. Ellingson, Chicago, III. Harry Nicholls, Charlevoix, Mich. Mitchell & Co., Gleveland, O. Mitchell & Co., Gleveland, O. Nitchell & Co., Cleveland, O. Now Tug Line, Green Bay, Wis. Geo. W. Miller, Buffalo, N. Y. Colon McRae, Grand Marais, Mich. John H. Walther, Bay City, Mich.
NAME AND ADDRESS OF OWNER OR MANAGER.	Mich.	F. R. Barnhardt, Chicago, III. J. C. Gilchrist, Cleveland, O. C. J. Connell, Chicago, III. L. A. Ferguson, Chicago, III. Henry Wineman, Jr., Detroit, Mich. Rel Edgewater Lighterage Co., Buffalo, D. J. B. Berryman, Chicago, III. Horace J. Conley, Green Bay, Wis. Frank Dant, Chicago, III. M. O. Cluchey, Pentwater, Mich. M. O. Cluchey, Pentwater, Mich. E. M. Ellingson, Chicago, III. Harry Nicholls, Charlevoix, Mich. Mitchell & Co., Cleveland, O. Mitchell & Co., Cleveland, O. Seo, W. Miller, Buffalo, N. Y. N. F. Hugo, Duluth, Minn. Colon McRae, Grand Marais, Mich.
M no ni	Day, I	F. R. Barnhardt, Chicago, III. J. C. Gilchrist, Cleveland, O. C. J. Connell, Chicago, III. L. A. Ferguson, Chicago, III. Henry Wineman, Jr., Detroit, Mich. R. Edgewater Lighterage Co., Buffalo, J. B. Berryman, Chicago, III. Horace J. Conley, Green Bay, Wi. Frank Dant, Chicago, III. M. O. Cluchey, Green Bay, Wi. E. M. Ellingson, Chicago, III. Harry Nicholls, Charlevoix, Mich. Mitchell & Co., Cleveland, O. N. F. Hugo, Duluth, Minn. Colon McRae, Grand Marais, Mich. John H. Walther, Bay City, Mich.
F OWN!	James O'Connor, Tonawanda, Chicago Fire Dept, Chicago, II Thos. M. Ryan, Buffalo, N. Y. A. Chapman, Muskegon, N. G. A. Tominson, Duluth, Minn. Albert Kalmbach, Sturgeon Bay Western Transit Co., Buffalo, N. Mulinix Bros., Toledo, O.	F. R. Barnhardt, Chicago, J. C. Gilchrist, Cleveland, O. C. J. Connell, Chicago, III. L. A. Ferguson, Chicago, III. Henry Wineman, Jr., Detroit, Edgewater Lighterage Co., J. B. Berryman, Chicago, Horace J. Conley, Green Brank Dant, Chicago, III. Frank Dant, Chicago, III. M. O. Cluchey, Pentwater, E. M. Ellingson, Chicago, III. Harry Nicholls, Charlevoix, Mitchell & Co., Cleveland, O. Mitchell & Co., Cleveland, O. Mitchell & Co., Cleveland, O. Cluchey, Pentwater, Mitchell & Co., Cleveland, O. Mitchell & Co., Cleveland, O. Mitchell & Co., Cleveland, O. Colon W. Willer, Buffalo, N. Seo, W. Miller, Buffalo, N. S. F. Hugo, Duluth, Minn Colon McRae, Grand Marais, John H. Walther, Bay Gillon, R. Bugher, Bay Gillon, R. Bay G
0 888 0	James O'Connor, Tonav Chicago Fire Dept., Chic. Thos. M. Ryan, Buffalo, V. A. Chapman, Muske G. A. Tominson, Duluth, Albert Kalmbach, Sturges Western Transit Co., Buf Mulinix Bros., Toledo, O	F. R. Barnhardt, Chicag J. C. Gilchrist, Cleveland, C. J. Connell, Chicago, L. A. Ferguson, Chicago, Henry Wineman, Jr., Detregewater Lighterage C. J. B. Berryman, Chicago, Horace J. Conley, Greet Horace J. Conley, Greet Frank Dant, Chicago, II. White Star Line, Detroit, M. O. Cluchey, Pentwa E. M. Ellingson, Chicago, Harry Nicholls, Charlevon, Mitchell & Co., Cleveland, Mitchell & Co., Cleveland, Mau Tug Line, Green Bay Geo, W. Miller, Buffalo, N. F. Hugo, Duluth, M. Colon McRae, Grand Ma John H. Walther, Bay
X QX	ames O'Connor, T Chicago Fire Dept., Thos. M. Ryan, Buf V. A. Chapman, M J. A. Tominson, Du Albert Kalmbach, St Western Transit Co. Mulinix Bros., Toled	F. R. Barnhardt, C. J. C. Gilchrist, Clev. C. J. Connell, Chi. Henry Wineman, Jr. Edgewater Lighter. J. B. Berryman, C. Horace J. Conley, Frank Dant, Chica White Star Line, D. M. O. Cluchey, P. E. M. Ellingson, Ch. Mitchell & Co., Clev. Mitchell & Co., Clev. Mitchell & Co., Clev. Man Tug Line, Gree Geo. W. Miller, Buf Gree, W. Miller, Buf Co. Clev. M. K. Hugo, Dullu Colon McRae, Grar John H. Walther,
NAME	ggo F ggo F M. Tom T Kal	Gilch Gill Gilch Gill Gilch Gill Gilch Gill Gill Gilch Gilch Gilch Gilch Gilch Gill Gilch Gilch Gilch Gilch Gilch Gilch Gilch Gilch Gilch
•		F. R. Barnhard J. C. Gilchrist, C. J. Connell, C. J. Connell, L. A. Ferguson Henry Wineman Edgewater Lig Edgewater Lig Frank Dant, Conwine Star Lin M. O. Cluches, Mitchell & Co. Mitchell & Mitchell
Year Built	1867 1886 1880 1882 1905 1905 1884 1884	1867 1881 1884 1876 1890 1899 1899 1899 1894 1894 1902 1902 1902 1903 1883 1883
Keel Beam	175x82 94x24 96x17 72x13 504x54 51x14 267x38 79x22	260x38 73x18 73x18 113x16 291x41 89x 4 33x 8 50x14 60x12 60x12 416x26 60x15 416x26 60x18 125x26 60x18 125x26 60x18 125x26 60x18 165x20
Gross Net Tonnage	512 71 111 18 4826 17 1677 81	235 1609 39 68 68 1632 91 766 24 12 12 189 189 189 189 189 189 189 189 189 189
Gross	538 143 129 28 6272 25 1917 85	262 1879 1879 160. 1972 1372 1372 1384 199 199 45 45 412
		Horace . 262 See Romeo.  M. 1972 O. B. 137 O. B. 137 V. 193 V. 199 W. S. 418 Moses . 4712 Moses . 412
VESSEL.	<u>‡</u> A	Taber, Horace Tacoma Tacoma Tailor. See Ro Tailor. M. Tampa Tampa Tampa Tarpon Tarpon Targon, Helen Taylor, J. V.
4 88	Sweetheart Swenie, D. Swenie, D. Sydney Sylph Sylvia Sylvia Sylvia Syracuse Syracuse T	Taber, F. Tacoma . Tacoma . Tailor. Tailor. Taloat M. Tamer, C. Tamer, C. Tarner, C. Tarlor . Tarlor . Taylor, J. Taylor, J. Taylor, J. Taylor, J. Taylor, J. Taylor, J. Taylor, M. Taylor,
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CLA SE.	Str B.	Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch

260 137x27 1876 Seymour Wells and E. J. Eber, Tonawanda,	Wind Wind Wind Wind Wind Wind Wind Wind	1892 Hiram W. Sibley, Rochester, N. Y. 1890 Ino. Hawley, Ontonagon, Mich. 1884 Hugh R. Havey, Detroit, Mich. 1869 Louis Sands Salt & Lumber Co., Manistee, Mich. 1887 E. P. Vilas, Milwaukee, Wis. 1894 Oshkosh Steamboat Co., Oshkosh, Wis. 1897 Stewart Kingston, Bay City, Mich. 1897 Pittsburg Steamship Co., Cleveland, O.	1908 W. H. Becker, Cleveland, O. 1901 Calumet Trans. Co., J. S. Ashley, Mgr., Cleveland. Iand. Iand. 1893 Great Lakes Towing Co., Cleveland, O. 1875 Fred Eber, Tonawanda, N. Y. 1907 L. C. Smith Transit Co., Syracuse, N. Y. 1873 Nels Olsen, Menominee, Mich. 1879 Henry G. Breed, Buñalo, N. Y. 1903 Ole Amundson, Chicago, III. 1888 James A. White, North Tonawanda, N. Y. 1873 Julian Porter, Lorain, O. 1901 Ole T. Olsen, Marinette, Wis.
137×27	. 10	132×30 60×15 132×24 66×14 80×14 124×25 37×14 866×44	380x50 1 300x42 1 125x27 1 125x27 1 438x52 1 49x13 1 162x31 1 162x31 1 162x31 1 186x25 1 69x19 1
	40 15 15 564 591 17 12 20 20	25 168 20 20 28 84 14 2912	45 45 198 4227 10 17 8 833 833
Tempest No. 2 369	Tempest Tempest Tempest Tessler Tessler, A. A. C. Teutonia The Limit The Moose Theora Theora	444	#Thompson, Alexis W.  #Thompson, A. W2279 Thompson, E. E 276 #Thompson, Smith. 4786 Thompson, Thomas. 19 Thora Thora Thora Thora Three Brothers 883 Three Brothers 583 Three Sisters 584
Str	Sch Trug Trug Trug Str	Sch Stragg	Sch Str Str Tug Siy Siy Sky Sch

CLASS.	VE88EL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Thyra Tia, Juana	36 16	28 10 247	79×11 63×11	1887 1901	Mrs. Alice E. Fenwick, Buffalo, N. Y. W. M. Gilbert, Neenah, Wis.
	Tioga	2320	1685 1885 1885 1885 1885 1885 1885 1885	285x38 340x45	1885 1983 1983 1983	Union Steamboat Line, Buffalo, N. Y. Rebuilt 1908. Frie & Western Trans. Co., Buffalo, N. Y.
	#Tipperary Boy Tisdale, H. G	379 81	291 40	100x32 94x18		Dunbar & Sullivan Dredging Co., Buffalo, N. Y. Lake Champlain T. Co., Whitehall, N. Y.
	Togo	::33°	. 45°	30x 8 98x14 54x20	1875 1975 1905	Charles C. Wicks, Erie, Fa. Fix Bross, Buffalo, N. Y.
	<b>Tokio</b> Toledo		1316 846	222x38 159x37		Henry Wineman, Jr., Detroit, Mich. George B. Taylor, Erie, Pa.
Str	Toltec	767	621	191×32	1889	Marine Trans. Co., Capt. Jas. Taylor, Mngr., Marrine City, Mich.
Tug Tug	Tomlinson, G. A. Tonawanda	.: 33%	53 15	85x20 59x15	18% 1893	& Wreckin wego, N. Y
Str	•	1376	1111	37×10 228×36	1904 1889	Herman Wisch, Sheboygan, Wis. Topeka Co., Milwaukee, Wis.
Scw		.: 16 79	ដូច្	64x14 50x32	1909 1900 1900	A. L. Hamili, Fetosky, Mich. Dunbar & Sulliyan Dredging Co., Buffalo, N. Y.
Sto	Tourist		6.25	50x12 87x17	1875 1897	Stewart Ten Eyck, Sault Ste. Marie, Mich. W. W. Preston, St. Joseph, Mich.
Sch		Y.7438 Y.7438 137	⊣ ທັ	255x40 586x58 95x17	1906 1887 1887	J. C. Gilchrist, Cleveland, O. Cambria Steamship Co., Cleveland, O. Name changed to Esther.
Sca C.F.	Trader Tramp ‡Transfer ‡Transport	291 10 1511 1594 1594	283 1060 797 352	117×26 46×10 265×75 254×45 133×32	1903 1900 1880 1905	Fox & Holloway, Buffalo, N. Y. Frank Dingman, Alexandria Bay, N. Y. Mich. Central R. R., Detroit, Mich. Mich. Central R. R., Detroit, Mich. Allen I. Halloway, Buffalo, N. Y.

8 1895 Pittsburg Steamship Co., Cleveland, O. 2 1907 Martin Trey, Milwaukee, Wis.	Great Lakes Towing Co., Cleveland, O.	b E. A. Laughlin, Chicago, III. 1 L. M. Trudell, Bay City, Mich. Rebuilt.	1 Wm. Lahmann, Milwaukee, Wis.	o western transit Co., Bunalo, N. Y. 2 R. Folkerts, Marine City, Mich.	2 H. H. Newberry, Detroit, Mich.	<sup>4</sup> M. V. Davis, Au Gres, Mich. 8 Empire Steamship Co., Buffalo, N. Y.	Lehigh Valley Trans. Co., Buffalo, N. Y.	6 John C. Everett, Holland, Mich.	1 Harris W. Baker, Detroit, Mich.	0 Elk Builders' Supply Co., Perrysburg, O.	0 Edward Hines Lumber Co., Chicago.	Anna L. Sloan, Buffalo, N. Y.	9 M. J. Galvin, Buffalo, N. Y.	5 John Schaam, Gladstone, Mich.	1 A. Budzisch, Milwaukee, Wis.	9 Della Smith. Sandusky, O.	O Fred L. Furtaw, Bay City, Mich.	9 John Johnson, Green Bay, Wis.	5 Harry Coulby, Cleveland, O.	5 J. C. Gilchrist, Cleveland, O.	1 S. C. McLouth, Marine City, Mich.	
\$ 50 x	1899	1881 1881	200	1872	883	19 19 19 19 19	186.	198	1871	187	<b>1</b> 89	1901	1886	1896	189	1869	189	1899	1895	1895	1871	
308x38 44x12 54x13	52x15	30x 9 50x12	61x14	380x45 187x30	120×17	40x 9 432x52	291×40	$39 \times 12$	$179 \times 31$	$77 \times 19$	$181 \times 35$		204x35		54×14	65×18	41x12	$80 \times 25$	142x33	300x41	$157 \times 30$	
1318 12 8		٩Ħ				3764	1679	∞	4.52	54	645	2	747	∞;	<u>æ</u>	ဓ္ဓ	2	8		1862	338 338	
Str ‡Trevor, John B1713 Str Trey, Martin 18	Triton		Tug Troy, Henry 27	Sch Troy 486	Sty ‡Truant 100	Gas Irumpour, D. A 9 Str ‡Truesdale, Wm. H.5057	Str ‡Tuscarora2386	Gap Tuscarora 12	Str Tuttle, H. B 744	Str Tuttle, M 57	Sch Tuxbury, A. C 679	Bge Twentieth Century. 75	Sch Twin Sisters 806	Sly Two Brothers 8	Tug Two Brothers 37	Sch Two Brothers 32	Sch Two Kitties 10	Str Two Myrtles 96	Bge Tvcoon 287	Tyrone	Tyson, Emma E.	
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Mich. Rebuilt

Syd Scott, Mt. Clemens, Mic Edward Mehl, Erie, Pa. Rebuilt Wisconsin Transit Co., Cleveland, Frank Schroeder, Milwaukee, Wis.

1881 1892 1904 1877

95x17 291x41 420x50 63x17

61 1892 3519 **41** 

89 2298 4803

tUarda . Uganda tUmbria Una ..

	ona-	ans.	luth,			Mil-
	Phil Kegel, Chicago, III. E. G. Riesterer, Mngr., Olga Trans. Co., Tona-	Wanda, N. Y. Simon Schacht, Erie, Pa. Adams & Dulord Co., Chaumont, N. Y. S. C. Schenck, Toledo, O. The Whitehall & St., Johns, Towing & Trans.	E. G. Robbins, Clayton, N. Y. Lake Sup. Con. & D. Co., Board of Trade, Duluth,	ich. Y.		S. R. Van Duzen, Alexandria Bay, N. Y. J. O. Calbrick, Chicago, III. Champlain Trans. Co., Burlington, Vt. Hon. Jos. C. Sibley, Valcour, N. Y. Joseph Croze, Houghton, Mich. Herbert J. Knight, Erie, Pa. George S. Steere, Chicago, III. Milwaukee S. S. Co., David Vance, Mngr., Milwaukee, Wis. Rebuilt 1900. Carrie Geiken, Charlevoix, Mich.
AGEB.	ns. (	Z.	Trad	d, O. City, Mich. ,, N. Y. Bay, N. Y.		N. Y. Y. T. Y. Y. T. Y. T. Y. T. Y. Y. T. Y. Y. T. Y. Y. T. Y.
B MAN	Tra	nont, Tov	ć. d o <b>f</b>	o, N. Bay		Bay, gron gron N. Y. N. Y. II. Vanc Vanc Mic
WEB 0	ll. Olga	a. Chau	N. Y Boar	velar arine 1. O. uffal III.		idria, IIII Mic. Mic. Trie, IIII Mic. Trie, III Mic. Trie, IIII Mic. Trie, III Mic.
WO 40	30, I	edo, Cost. J	Co.,	loos. Cle n, Mc elanc o., B cago.		Alexandria Bay, P. Chicago, Ill. E. Co., Burlington, ley, Valcour, N. Y. nd, O. oughton, Mich. gight, Erie, Pa. e. Chicago, Ill. Co., David Vance, Rebuilt 1900. Charlevoix, Mich. Chicago, Mich. Charlevoix, Mich.
DRESS	hicag . Mr	Erical Tolor	Clay & D.	r Co L'Tmar Clev Sit Co Chic		Van Duzen, Alexa Calbrick, Chicago Jain Trans. Co., os. C. Sibley, Va Croze, Houghton rt J. Knight, s. S. Steere, Chic shee S. S. Co., I kee, Wis. Rebui Geiken, Charle
NE AT	el, C	nacht Dufe enck,	bins, Con.	ransi ransi 7. Ca rrist, Fransi rour.		Duze Duze C. Si Level Level Jevel Jevel Jevel Stee S. Stee S. S. Stee
NAME AND ADDRESS OF OWNER OR MANAGER.	Keg Rie	wanda, N. Y. on Schacht, F ms & Duford Schenck, T Whitehall &	Rob Sup.	Gilcler T. Arn		Van Call Jos. 1 Creert ert ert ert ert ert
	Phil Kegel, Chicago, Ill E. G. Riesterer, Mngr., C	wanda, N. x. Simon Schacht, Erie, Pa. Adams & Duford Co., Ch. S. C. Schenck, Toledo, O The Whitehall, & St., Joh	E. S.	Wilson Transit Co., Cleveland, O. George W. Carman, Marine City, Mich. J. C. Gilchrist, Cleveland, O. Western Transit Co., Buffalo, N. Y. A. V. Armour. Chicago. III. John T. Fuller, Alexandria Bay, N. Y.		S. R. Van Duzen, Alexandria Bay, N. Y. J. O. Calbrick, Chicago, Ill. Champlain Trans. Co., Burlington, Vt. Hon. Jos. C. Sibley, Valcour, N. Y. Cleveland, O. Loseph Croze, Houghton, Mich. Herbert J. Knight, Erie, Pa. George S. Steere, Chicago, Ill. Milwaukee S. S. Co., David Yance, Mng waukee, Wis. Rebuilt 1900.
Year Built	1902 1862	1900 1900 1863 1900	1882	1908 1873 1901 1904 1891 1889		1896 S. R. Van Duzen 1890 J. O. Calbrick, 1890 Champlain Trans 1895 Hon. Jos. C. Sibl 1901 Croze, Holl 1872 Joseph Croze, Holl 1873 Herbert J. Kn 1889 George S. Steer 1887 Milwaukee S. S. waukee, Wis.
K eel Beam						•
1	35x 9 153x30	49×13 80×22 60×13 91×19	44×12 43×12	504x54 169x29 346x48 325x44 155x27 44x11		75×13 210×34 240×34 4× 9 89×14 86× 8 69×17 65×16 50×15 257×39
Gross Net Tonnage	12 376	10 67 12 61	14 10	4853 498 2943 2058 266 27		236 236 28 28 28 11 1642 19
Gross Tonnage	. 13 . 396	<b>4.</b> 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	15	6309 3748 3533 414		46 789 789 10 112 112 40 40 1952 28
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ij		: : : : : : : : : : : : : : : : : : :	Н.,	J. E 6309 524 3748 0 414		alter Frank L H. M.
VESSEL.	San	Paul Sam	a, J.	n, J. 18 IS		wr ur ur ur tr tr tr lis lls, Fri
	Uncle Sam 13 Unadilla 396	Uncle Paul Uncle Sam Unique	Uno Upham, J. H., Jr	†Upson, J. E6309 Uranus 524 †Uranus 3748 †Utica 3533 †Utica 414 Uviva 44	>	Vacuna       46         Vail, Walter       789         Valcour       10         Valcour       61         Valdez       12         Valerie       58         Valerie       58         Valerie       58         Valant       24         Vance, Frank       L 1952         Van Ells, H. M.       28
CLASS.	Gas	Tug Bge Tug Str	Slp Tug	Str + + + Str + + Str + + + + + + + + + + + + + + + + + + +		Str Str Str Sty Gas Gas Gyt Tug Tug
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		id, O.		o, Mich.		lich.			1, Vt.	uffalo, N. Y.	wanda, N. Y.	o.			es, Vt.	it, Mich.	Gleveland, O.		Nester Estate, Detroit, Mich.	ist, Sec., Cleve-	•	kee, Wis.	N. Y.	ch.	żh.	Ë	N. Y.	N. Y. Out of	,	.;	×	ie, Mich.		
Chicago, Ill.	. Detroit, Mich.	Pittsburg Steamship Co., Cleveland, O.	Detroit, Mich.	George H. Winans, Kalamazoo, Mich.	Chicago, Ill.	lames Davidson, W. Bay City, Mich.	leveland, O.	leveland, O.	Champlain Trans. Co., Burlington, Vt.	Lackawanna Steamship Co., Buffalo, N.	. & S. Co., N. Tonawanda, N. Y.	rence, Cleveland,	.o., Chicago, Ill.	Detour, Mich.	Daniels, Vergenn	erry Co., Detroi	Inter Lake Co. (P. M. & Co.), Cleveland, O.	້ ກຸ	etroit, Mich.	o, F. R. Gilchr		Conrad Schultheis, Jr., Milwaukee, Wis.	esmond, Buffalo,	. Sebewaing. Mi	l, Bay City, Mic	Co., Chicago, I	Alexandria Bay,	shall, Buffalo, l		Frank S. Upton, Charlotte, N. Y.	ieeler, Massena,	Charles Thoeman, Sault Ste. Marie, Mich.	etroit, Mich.	
W. F. Cameron, Chicago, Ill	John H. Smedley, Detroit, Mich.	Pittsburg Steams	John G. Plasko, Detroit, Mich.	George H. Win	George Tramel, Chicago, Ill					Lackawanna	Tonawanda I. &	Mortimer J. Law	Western Stone Co., Chicago, Ill.	Geo. Pomeroy, ]	Estate of Lewis	D. B. I. & W. I	Inter Lake Co.	Rebuilt 190	Nester Estate, D	Merida S. S. C	land, O.			Chas. W Liken	Robert Beuttell	Goodrich Trans	J. P. Wagoner,	0 Chas. D. Marshall, Buffalo, N. Y.	Com.				Ed. L. Fields, Detroit, Mich	
1896			1896	1882	1896	1897	1901	1887	1903	1907							1895		1806	1889		1906	1889	288 288	<b>28</b>	1891	1897	1890 1890	. 6				188	
49×13	$52 \times 16$	458×50	47x12	33x10	49x12	263×40	346x48	252×42	251 x34	480x52	202x34	87x15	99x17	43×12	63x13	96×28	459×48		128×24	217x37		34x10	$60 \times 14$	$77 \times 21$	47×12	$269 \times 38$	72x16	41x 9	,	86×18	SUX IO	82×11	43x13	
11	37	3673	13	Ξ	15	1733	2766	1395	608	4765	<u>2</u>	45	73	Ξ	18	116	3707		253	943		7	16	21	<b>o</b>	979	14	<b>.</b>	9	<b>₹</b>	3	24	NO.	
Vanenna 19	Vanessa 42	20	Varuna 13	Vayn 11	18	2125	3719				1093	Vesta 70	Victor 101	• • • • • • • • • • • • • • • • • • • •		Victoria 192	7		Vigilant 372	1Viking1117		Viola 11		Viola 54		ginia1606	•	Virginia 18		Vita 69		•••••	Volley, Ed 18	
		• •		Scy Vay	•	•	++		Stp ‡Ve	••			_		•		Str ±Vic		Str Vig	++		Str Vi			Tug Vic	Sto #Vin	Str Vi			Sty	•	Sty ‡Vo		

FROM THE BLUE BOOK OF AMERICAN SHIPPING. COPYRIGHTED, 1909.

CLABS	VESBEL.	Gross	Gross Net Tonnage Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGRE.
Sch Tug Str	Volunteer Volunteer Volunteer  †Vulcan	2316 23 23 13 1759	1683 20 . 9 1366	270x41 48x16 58x10 260x38	1888 1899 1887 1880	J. C. Gilchrist, Cleveland, O. A. J. Kennedy, St. Ignace, Mich. J. Martell, Depere, Wis. J. C. Gilchrist, Cleveland, O.
	*					
TS S S S S S S S S S S S S S S S S S S	Waccamaw Wade, Adie Wade, J. H. Wagner, Matt Wagoner, Capt Walenwright Wales Waleska Waleska Wallec, Perry G Wallace, Perry Wallace, Bertha Wallace, E. L. Wallace, E. L. Wallace, C. C. Wallace, E. L. Wallace, C. C. Wallace, E. L. Wallace, Robt.	1359 989 983 192 193 193 193 193 193 193 193 193	920 67 1502 13 3714 3714 3143 3143 113 597 1415 4772 22 116 116 117 117 117 117 117 117 117 117	249×40 80×20 265×38 62×12 54×11 420×52 126×24 80×20 416×10 1194×34 84×28 30×11 30×11 420×52 532×56 532×56 532×56 538×41 260×39 44×13	1900 1902 1888 1888 1901 1886 1886 1890 1890 1890 1903 1903 1888 1903 1888 1903 1888 1888 1893 1893 1893	J. L. Crosthwaite, Buffalo, N. Y. Joseph A. Lemere, Jacksonport, Mich. W. C. Richardson, Cleveland, O. A. E. Baker, et al., Dunkirk, N. Y. Rebuilt 1904. David Wagoner. Alexandria Bay, N. Y. Edward Mehl, Erie, Pa. Geo. Hall Coal Co., Ogdensburg, N. Y. Great Lakes Towing Co., Cleveland, O. H. M. Ludwig, Benton Harbor, Mich. J. C. Gilchrist, Cleveland, O. Arthur Wilson, Erie, Pa. Sandusky Lumber & Box Co., Sandusky, O. Lehigh Valley Trans. Co., Buffalo, N. Y. Out of commission. F. G. Schau, Port Clinton, O. Dearborn Transit Co., Dearborn, Mich. Ame S. Co. (A. B. Wolvin), Duluth, Minn. Great Lakes & St. L. Trans. Co., Dr. T. Helm, Duluth, Minn. J. C. Gilchrist, Cleveland, O. Ohio S. S. Co., C. O. Jenkins, Mngr., Cleveland. R. J. Ferris, Spring Lake, Mich. E. J. Stripe. Ontonagon, Mich.
	Walter	17	16	44×13	1893	E. I. Stripe, Ontonagon, Mich.

1891 Thos. J. Degnan, care Lake Sand & Gravel Co., Toledo, O.		1869 A. L. Hyde, Cleveland, O. Abandoned.	1891 Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.	Ber		1889 W. A. Pungs, Detroit, Mich.						880 James Rooney Toledo O Rebuilt 1800	1898 Iulius H. Kiel. Oshkosh. Wis.	863 Shannon & Garey, Saginaw, Mich.	869 M. O'Neil, Charlevoix, Mich.	901 Calumet Trans. Co., J. S. Ashley, Mgr., Cleve-	1882 W. S. Jones, Buffalo, N. Y.	.905 William Wiedeman, Toledo, O.	1873 David L. Ramage, Sturgeon Bay, Wis.	887 Lewis J. Rice, Jr., Detroit, Mich.	J. C. Gilchrist, Cleveland, O.	1893 Joseph Landon, 278 North av, Chicago, III.	Pittsburg Steamship Co., Cleveland		887 Conrad Niederman, Milwaukee, Wis. Rebuilt	j	S. A. Maxwell, Alexandria Bay, N.	1906 H. A. Buttrick, Sturgeon Bay, Wis.	
101x27 1	29x 8 1		62x15 1	60×12 1		•	٠.				332x <b>42</b> 1	50~13				• •	_	• •		•	380×50	56×13	405×48	72×15 1	72×19	95×18	61×15	30x 8	
123			16	13	14	12	15	1037	83	2733	2128	16	112	281	13	2125	ස	12	9	17	3364	3				66	æ,	S.	
Dge Walter D 136	Walter J	Walton, Andrew 9		v Wanda 20		Waneka	•		-	++				Warren, Homer	Warren, Minnie			_	Str Watkins, Edward 20	Watkins, Grace	Watson,	Watson, Harvey	Watt, James	Waubun	ng Waubun 77	Wau-Kon		is Wauneta 6	,
Ã	Str	B	Tug	វ័	လ	Sty	Ţ	Š	Ţ.	ೱ	S	Ė	Ť	i i	Ē	Sch	ഗ്	යී	ĸ	ഗ്	ัง	ಭ	ೱ	Ä	Ē	Ĭ,	m (	Ğ	

CLABB.	I. VESSEL.	Gross Tonnage	Gross Net Tonnage	Keel Beam	Vear Built	NAME AND ADDRESS OF OWNER OR MANAGES.
Sch	Waunetta	6 13	9	.33×10 89×11	1897 1887	John Olmstead, Cheboygan, Mich. W. G. Wilcox, Plattsburg, N. Y.
Scy			8	84x23	1864	George W. Davis, Alexandria Bay, N. Y.
Str	Wa Wa	16	2	44×10	1891	Geo. F. Shipman, Escanaba, Mich.
Sch	#Wawatam1856 Wayne 708	708	1526 629	266x38 189x34	1891 1882 1883	Fittsburg Steamship Co., Cleveland, O. A. B. Wolvin, Duluth, Minn.
Sty	Wayward	42	21	89×16	1882	
Sch		<b>88</b>	88	$97 \times 22$	1882	John A. Morley, Harbor Beach, Mich.
Str	++	.4551	<b>34</b> 51	416x50	1903	J. C. Gilchrist, Cleveland, O.
Tug		34	7 7 7 7 7	140x20 58x15	1883	G. A. Boecking, Sandusky, O. H. R. Spencer, Duluth, Minn.
		 	^	40×11	1908	Frank J. Weigand, Erie, Pa.
S Tug			ဆ	85x20	1890	Milwaukee Tug Boat Line, Milwaukee, Wis.
Tug	•	. 28	ස	68×17	1890	Great Lakes Dredge & Dock Co., Chicago,
Tug	Welcome10	10	ro	42×12	1838	Thomas Goodman Washington Harbor Wis
Scb		83		100×17	1877	
Str	Welcome		11	80×21	1894	
Gas	Welcome	- 5	ဖဋ	42x10	1903	
ָ מָלְ	+Wells, D. A	4807	3630	02×18	1001	
Sch	Wells, Hattie 376	376	357	164×28	1867	Cap
,	;	;	;	;		
S.C.	Wemco II	352	88	60×16	1905	
S.C.	Wente, Kobert C Wescott, Geo. W	122	267 116	141x30 111x24	1888 863 863 863	Gus Kitzinger, Manistee, Mich. Tom Olsen, care Starke's Tug Office, Milwankee.
			)   			
	‡West, B	. 122	122	100×24	1905	Alexander Ruelle, Detroit, Mich.
ž,	West, George K 22	? § ? :	<u> </u>	54×13	5 5 5 6 6	Martin Treu. Milwaukee, Wis.
	Westcott, J. W		į	109701	201	I. I. I HOIMPSOII, I OIL HUIOII, MICH.

1880 Thompson Tug Line, Port Huron, Mich.		llan,	1882 Tonawanda Barge Line, N. Tonawanda, N. Y.	1906 Tonawanda Transit Co., Tonawanda, N. Y.		•	Geo. K.	Edward		Ray M.	1905 William G. Mather, Cleveland, O.	1906 Mitchell & Co., Cleveland, O.	1889 Fred L. Mesmer, Buffalo, N. Y.						1881 Shannon & Garey, Saginaw, Mich.		1900 J. C. Gilchrist, Cleveland, O.	1600 M. Sicken, Marine City, Mich.	1906 Pittsburg Steamship Co., Cleveland, O.	1866 Joseph Fairfield, Toledo, O.	1904 Columbia S. S. Co., Wm. Becker, Mngr., Cleve-			1902 Chas. W. Kotcher, Detroit, Mich. 1891 H. F. McCune, Chicago, III		
41×11	416x50	366x45	163x31	549x56	93x30	86x23	62×11	36x15	250x38	93x17	504×54	416x50	44x12	66x15	30x 8	36x13	53x15	43×14	152×28	8 × 8	412x51	141X20	580x58	46x13	416x50	32x 9	187×33	64x11 40x 8	49×12	
6	3593	1566		5511		<u>&amp;</u>	17	18	1388	84	4931	3205	15	8	စ	Ξ	16	8	248 848	ک	3584	0)7	5444	21	3368	9	449	$^{21}_{0}$	12	
Tug Westcott, J. W 18	Str Western Star4764	Stp ‡Western States3077	Weston, A.	Str ‡Weston, Chas. A 6996	West Superior	Whim-Wham 1	•	Sch Whistler 19		Scb White, Chas. N 115	Str ‡White, Peter6184	‡White, Pendennis 4	•	White, Kate	White Swan	White Wings	White Wings	White Wings	Sch White & Friant 348	Whittord	‡Whitney, D. M4	Sch Wnithey, Grace 269 Str 1Widener Peter A. B.		Scy Widgeon 22	Widlar,	Widsith	Wiehe, Trude R.	Gay Wilama 25	Wilcox, Major	

CLASS.	VESEL.	Gross Tonnage	Gross Net	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sly Tug		:. 14. 41. 42. 43. 44. 45. 44. 45. 45. 45. 45. 45. 45. 45	43	76x16 40x12	i	Simon Failing, Point Peninsula, N. Y. M. I. Wilcox Co., Toledo, O. Rebuilt 1900.
St. St.	Wilhelm, S. S 683 ‡Wilkesbarre4153 ‡Wilkinson H. S9860	4153 860 860	491 3311 3057	185x35 381x50 370x48	1901 1901 1901	Name changed to L. L. barth. Lehigh Valley Trans. Co., Buffalo, N. Y. II. S. Trans. Co., Rockefeller Bido., Cleveland.
Tug	Will and Harry	2 ∞	۳. ح	39x12 31x 9	1898 1899	Conrad Bachmann, Vermillion, O. Wm. R. Young, Cleveland, O.
Tug Tug Tug	William D. William H.	::: 88 821	28 61 61	70×19 69×17 87×19	1892 1898 1876	Great Lakes Towing Co., Cleveland, O. Penna. Fishing Co., Erie, Pa. Buffalo Dredging Co., Buffalo, N. Y. Aban-
Tug Sch		106 274	72 240	87×21 130×30	1887 1907 <b>1855</b>	
Str Tug Tug	Williams, Geo. F. 1088 Williams, H. W 691 Williams, J. L 51 Williams, Kate 164 Williams, Rate 164		248 110 110 110	280x41 170x35 67x16 112x20	1888 1888 1888 1888 1888 1888 1888 188	J. C. Glichrist, Cleveland, O. Dunkley-Williams Co., So. Haven, Mich. E. F. England, Duluth, Minn. Thomas H. Smith, Sturgeon Bay, Wis.
Str Str	Willow	×.	13,	554x58	1903 1908	Michael Wendorf, Eric, Fa. Stephen Jones, Chicago, III. Shenango S. S. Co., C. D. Dyer, Sec., Cleve-
Sch Str Str Str Tug Tug Scw	Sch Wilson, Annabell 490 Str Wilson, Kate 15 Str Wilson, Mathew 322 Str ‡Wilson, Capt. Thos.4719 36 Tug Wilson, Thomas 71 Tug ‡Wilson,Gen.JohnM. 42 Scw Windsor 193	490 15 822 ss.4719 71 f. 42	467 10 243 3959 35 28 28 140	174x32 48x12 141x27 420x50 73x18 70x15 74x50	1887 1872 1900 1888 1898 1894	Luther P. Graves, Buffalo, N. Y. Eugene Loesch, Erie, Pa. Dennis McMillan, Muskegon, Mich. Wilson Transit Co., Cleveland, O. Great Lakes Towing Co., Cleveland, O. U. S. Engineer, Buffalo, N. Y. Geo. W. Archer, Rochester, N. Y.

1901 W. C. Walker, Chicago, Ill. Formerly Clara	1903 Warren J. Brodie, Cleveland, O. 1867 Geo. Irving, Oswego, N. Y. 1893 W. J. Johnston, Butte des Mortes, Wis. 1878 John J. Boland. Buffalo, N. Y. 1894 F. W. Fletcher, Alpena, Mich. 1903 Wisconsin Transit Co., Cleveland, O. 1901 Chas. Merbach, Neenah, Wis. 1882 Barry Bros. Trans. Co., Milwaukee, Wis.	1885 Great Lakes Towning C. Cieveland, O. 1906 Erie & Western Trans. Co., Buffalo, N. Y. 1880 Ogdensburg C. & T. Co., Ogdensburg, N. Y. 1904 Wm. H. Sharp, Bay City, Mich. 1908 Nicholas H. Witt, Duluth, Minn. 1896 L. E. Huntley, Buffalo, N. Y. 1896 Whitney Bros. Co., Superior, Wis. 1895 Whitney Bros. Co., Superior, Wis. 1895 Whitney Bros. Co., Superior, Wis. 1908 Gartland S. S. Co., D. Sullivan, Mgr., Chicago,	111. 1187 W. Div. S. S. Co, Milwaukee. D. Sullivan & Co., 1900 Pittsburg Steamship Co., Cleveland, O. 1904 Acme S. S. Co., A. B. Wolvin, Duluth. 1889 Frederick Lemke, Sandusky, O. (Lost). 1875 J. A. Woltman, Chicago, Ill. 1903 Frank E. Fisher, Glen Arbor, Mich. 1906 Gilchrist Trans. Co., Cleveland, O. 1908 W. A. & A. H. Hawgood, Cleveland, O. 1908 J. C. Gilchrist, Cleveland, O. 1888 Great Lakes Towing Co., Cleveland, O. 1888 Benton Transit Co., Benton Harbor, Mich.
29×11	45x 9 118x28 27x 9 252x35 1115x20 428x50 428x50 181x30 1	76x16 320x46 167x33 60x18 43x11 91x17 31x11 504x54	285x42 242x42 540x56 94x19 61x16 26x 8 514x54 532x56 416x50 54x15
	12 190 8 874 74 3707 11 625	28 473 17 105 6 41 102	1791 1587 5311 78 37 6 5744 3380 18
t Windward 6	Sch Wing and Wing .         16           Sch Wing, Winnie .         200           Gas Winnecome .         9           Str Winnipeg .         1108           Sty Winyah .         143           Str Wisconsin .         4858           Str Wisconsin .         16           Str Wisconsin .         769	Tug Wisconsin       56         Str tWissahickon       4062         Sch Witbeck, Henry       498         Str With       44         Str Witt, Herman       12         Sch Witter, Wm. E.       13         Sly Wizard       6         Scw W. No. 1       41         Scw W. No. 5       102         Str tWolf, William H.	Str         Wolf, William H2265           Str         Wolvin, A. B2286           Str         Wonder
Yit	Sch Sch Str Str Str Str Str Str Str	™ № № № № № № № № № № № № № № № № № № №	Str Str Str Str Str Str Str

1	Manistee,	Mich.		nd, O. ih. Aban- IJI.
NAME AND ADDRESS OF OWNER OR MANAGER.	1905 G. A. Boeckling, Sandusky, O. 1901 Fred Woodworth, W. Webster, N. Y. 1888 O. W. Blodgett, Bay City, Mich. 1893 Louis Sands Salt & Lumber Co., Manistee, Mich.	1868 Barbara H. Scheunemann, Chicago, III. 1880 J. F. Schoellkopf, Buffalo, N. Y. 1888 J. C. Gilchrist, Cleveland, O. 1880 W. H. Sharp, Bay City, Mich. 1869 Jens Jensen, Ephraim, Wis. 1908 Wyandotte Transp, Co., Detroit, Mich. 1845 Penna. Fishing Co., Erie, Pa. 1887 Wyoming Steamship Co., Buffalo, N. Y.	22 44x15 1888 Mary V. Allers, St. James, Mich.	1888 Great Lakes Towing Co., Cleveland, 1845 John J. Boland, Buffalo, N. Y. 1862 Mills Trans. Co., Marysville, Mich. doned. 1875 Yates Coal Co., Rochester. N. Y. 1879 Western Transit Co., Buffalo, N. Y. 1869 Chicago Lighterage Co., Chicago, IJI. 1901 G. A. Tomlinson, Duluth, Minn. 1889 Pittsburg Coal Co., Cleveland, O.
Year Built	1905 1901 1888 1893	1880 1880 1880 1908 1880 1887	1888	1888 1885 1862 1875 1879 1869 1901
Keel	49x12 68x15 179x34 191x36	203 129×26 ug Smith. 106 96×17 106 96×17 107 169×33 24 5 <sup>3</sup> ×13 24 5 <sup>3</sup> ×13 24 5 <sup>3</sup> ×13 25 139×29 937 241×39	44x15	74x18 371x45 138x25 138x25 57x14 264x36 134x28 356x50 115x30
Gross Net Tonnage Tonnage	11 78 673 712	, <del></del>	83	31 2698 224 224 16 1571 256 3044 170
Gross	14 89 708 886	214 See 7 130 2207 530 26 26 27 27 27 284 1488	<b>8</b>	
VESSEL.	Woodward, Col 14 Woodworth, F. C 89 Woolson, Mary 708 Wotan	Wrenn, George L 214 203 129x Wright, Albert J. See Tug Smith. Wright, A. J 130 106 96x Wright, A. W 530 507 169x Wright, John W 26 24 57x tWyandotte 286x Wyhand, I. L 286x Wyman, Charles E 284 222 139x Wyoming	Sch X. 10 U. 8	Yale 62  Yale 3453  Yankee 236  Yates, Florence 82  York State 1770  York State 877  Youghiogheny 177
CLASS.	Gas Str Sch Str	Now Soft	Sch	Str Tag

3 155x29 1872 Geo. Frances, Bay City, Mich. 3 155x30 1883 H. McMorran, Port Huron, Mich. 3 322x44 1893 Wilson Transit Co., Cleveland, O.		<ul> <li>0 125x36 1907 St. Lawrence River Power Co., Massena, N. 6 204x34 1890 William J. Hackett, Cape Vincent, N. Y. 51x 9 1903 L. Comstock, Alexandria Bay, N. Y. 1899 W. A. Whitney, W. Superior, Wis. 7 83x21 1895 Great Lakes Towing Co., Cleveland, O. 93x148 1895 Pittsburg Steamship Co., Cleveland, O. 93x17 1891 S. T. Stacv, Buffalo, N. Y. 93x17 1890 O. W. Blodgett, Bay City, Mich. 2 488x52 1905 L. S. Sullivan, Toledo, O.</li> </ul>
363 413 1828		360 796 88 844 1117 583 583 5477
Sch Young, C. L 882 Sch Young, Wm. A 434 Str ‡Yuma‡2194	2	Dge Zancle       757         Sch Zapotec       811         Nyt Zelpha C       12         Scw Zenith       30         Tug Zenith       95         Str ‡Zenith City       3850         Str Zenobia       142         Str Zillah       748         Str ‡Zimmerman, Eug'ne.5630       4

# Canadian Steam and Sail Vessels of the Great Lakes

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findicates steel vessels. Tons of steam vessels are gross tons, sail vessels registered tons. Year in brackets, thus (1895), is year in which vessel was built

Olivia, sail, 88 tons, 100 ft., (1884), Aberdeen, stm., 13 tons, 51 ft., (1894), C. W. Cole, Milford, Ont. Aberdeen, stm., 142 tons, 99 ft., (1894), A. W. Hepburn, Picton. Abeona, stm., 46 tons, 89 ft., (1889), Harry Oldfield, Parry Sound, Ont. John Bradley, Merritton.

Acacia, stm., 107 tons, 92 ft., (1893), Wallaceburg, Sugar Co., Ltd., Wallaceburg, Abino, stm., 41 ft., (1894), Wm. T. Windsor, Callender, Ont.

Active, sail, 64 tons, 84 ft., (1887), J. McCallum, Active, stm., 302 tons, 129 ft., (1873), Montreal Trans. Co., Ltd., Montreal

Ada, stm., 29 tons, 61 ft., (1886), Chas. Ogilvie, Ottawa. Wallaceburg.

Adams, Fredde, stm., 16 tons, 40 ft., (1906), Geo. E. Adams, Parry Sound, Ont. Ada, Alice, stm., 60 tons, 66 ft., (1879), Jos. Goodwin, Toronto.

Adams, James, stm., 51 tons, 68 ft., (....), Great Lakes Dredging Co., Ltd., Port Arthur,

treal Trans. Co., Ltd., Montreal, Que. 4Agawa, stm., 3759 tons, 379 ft., (1902), Algoma Central & H. B. Ry. Co., Sault Advance, stm., 72 tons, 48 ft., (1886), Wm. A. Kennedy, Manitoulin.
Advance, stm., 1031 tons, 175 ft., (1884), Mon-Adrelexa, stm., 20 tons, 61 ft., (1886), Edward Adamson, Toronto. Advance, stm., 41 tons, 66 ft., (1862), F. Smith, Admiral, stmr., 9 tons, 45 ft., (1880), Peter G. Carpenter, Sombra. goma Cen St. Marie. Toronto.

Agnes, stm., 23 tons, 50 ft., (1884), W. W. Grant, et al., Spanish River, Ont.
Agnes, stm., 14 tons, 55 ft., (1898), Thos. Ellis, Roach's Point. Toronto.
Agnes, C. stm., 20 tons, 47 ft., (1887), W. H. Plummer, Sault Ste. Marie.
Agwinde, stm., 307 tons, 105 ft., (1900), Rainy River Nav. Co., Ltd., Kenora, Ont. Ahmic, stm., 77 tons, 80 ft., (1896), The Muskoka Lakes Navigation & Hotel Co., Ltd.,

Aggie, sail, 13 tons, 47 ft., (1887), Christopher Armstrong, Oakville.

Toronto.
Ahteek, stm., 29 tons, 57 ft., (1879), W. H. Plummer, Sault Ste. Marie, Ont.

Aid, sail, 368 tons, 153 ft., (1885), Treffle Rondeau, Lanoraic, Que.

Aikins, W. J., stm., 42 tons, 60 ft., (1874), D. C. Graham, Fort William.

Aileen, sail, 25 tons, 65 ft., (1882), Robt. Myles, Toronto.

Aileen, stm., 24 tons, 56 ft., (1904), Peter Cavanagh, Perth, Ont.

Ajax, stm., 33 tons, 54 ft., (1902), W. F. C. Boyd, Bobcaygeon.

A., sail, 16 tons, 50 ft., (1903), Canada Corundum Co., Ltd., Toronto.

Alan, stm., 6 tons, 29 ft., (1907), W. H. Argue, Parry Sound, Ont.

Alaska, stm., 348 tons, 165 ft., (1878), W. J. Pulling, et al., Windsor, Ont.
Alaska, stm., 246 tons, 102 ft., (1906), Sincennes-McNaughten Line, Montreal, Que. Albani, stm., 5 tons, 36 ft., (1892), Wm.

Davies, Toronto, Ont. Albani, stm., 58 tons, 78 ft., (1882), W. H. Comstock, Brockville.

Albani, sail, 159 tons, 107 ft., (1883), H. F. Cumming. Cornwall. Albatross. sail, 317 tons, 136 ft., (1871), Mid-land Towing & Wkg. Co., Ltd., Midland Ont. Rebuilt.

Alberta, stm., 7 tons, 30 ft., (1907), Geo. Gerow, Rossport, Ont.

‡Alberta, stm., 2282 tons, 263 ft., (1883), Canadian Pacific Ry. Go., Montreal, Que. Alberta, stm., 2 tons, 20 ft., (1904), D. L. Mather, Kenora, Ont.

Alberta M., stm., 38 tons, 69 ft., (1907), W. G. Keen, Blind River, Ont.
Albert, stm., 1 ton, 21 ft., (1891), Henry W. Harrison, Hamilton.
Albert, sail, 147 tons, 109 ft., (1897), H. E. Larkin and A. Sangster, Iroquois.
Aldrich, W. B., stm., 59 tons, 68 ft., (1905), H. A. Hackett, et al., Amherstburg, Ont. Alert, stm., 50 tons, 64 ft., (1886), Minister of Railways & Canals, Ortawa.
Alert, stm., 47 tons, 58 ft., (1886), Welland Canal Tug Co., Ltd., Pt. Colborne, Ont. Kaye, Sault Ste. Marie, Ont.
Alerth stm., 9 tons, 37 ft., (1903), John A. Kaye, Sault Ste. Marie, Ont.
Alertha stm., 171 tons, 107 ft., (1901), Mrs. Alertha, stm., 171 tons, 107 ft., (1901), Jr.s. Alertha Roys. Kingston.
Alexander. sail, 351 tons, 107 ft., (1891), J. B. Parkin, Lindsav.
Alexandria, paddie stmr., 863 tons, 173 ft., (1883), Arthur W. Hepburn, Picton.

Alfred, paddle stmr., 89 tons, 48 ft., (1895), A. L. Dundas.

Algoma, stm., 157 tons, 104 ft., (1901), Robt. A. Lyon, Sault Ste. Marie, Ont. Algoma, stm., 5 tons, 36 ft., (1901), John Davis, Peterboro.

H. Davis, Kingston.

Algoma, stm., 69 tons, 56 ft., (1904), Rat Portage Lumber Co., Ltd., Kenora, Ont. Algonquin, stm., 305 tons, 120 ft., (1906), Huntsville L. of Bays and L. Sim Nav. Co., Toronto, Ont.

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Anchora, stm., 6 tons, 42 ft., (1902), Robt. J. McKee, Toronto.
Anderson, stm., 16 tons, 42 ft., (1888), James ‡Algonquin, stn., 1806 tons, 245 ft., (1888), St. Lawrence & Chicago Steam Nav. Co., Ltd., Toronto.

Alice, stm., 15 tons, 41 ft., (1902), T.
Lemyre, Grandes Piles, Que.
Aligator paddle stmr., 6 tons, 31 ft., (1893), F. Baker, Barrie.

Anderson, stm., 16 tons, 42 ft., (1888), James Clark, Wiarton. Andrews, Abbie L., sail, 287 tons, 138 ft., (1873), Pittsburg & Erie Coal Co., Ltd.,

Angler, stm., 20 tons, 53 ft., (1895), John S. Allan, Port Dover, Ont.

Toronto, Ont.

Allan, Eliza, sail, 110 tons, 84 ft., (1875), Ed. Harris, Port Dover.

Alliance, sail, 33 tons, 47 ft., (1867), Arnold Winegardin, Chatham.

Allie, stm., 11 tons, 40 ft., (1890), A. W. Jones and D. M. Jones, Ottawa.

Alma T., stm., 16 tons, 35 ft., (1889), Ont & Western Lumber Co., Ltd., Kenora, Ont.

Alma V., stm., 56 tons, 68 ft., (1906), S.

Anglin, R., stm., 97 tons, 97 ft., (1869), R. J. Couch & H. W. Brooks, Ottawa, Ont. Anglo-Saxon, paddle stmr., 69 tons, 68 ft., (1868), Ontario Bank, Toronto.
Anglo-Saxon, sail, 253 tons, 133 ft., (1864), executors of estate D. D. Calvin, Kingston. Anglo-Saxon, sail, 180 tons, 58 ft., (1898), David Davidson, Penetanguishene.

Villineuve, Kenora, Ont. Almida, stm., 8 tons, 30 ft., (1899), A. W. Nuttall. Port Arthur. 194

Alva, stm., 27 tons, 50 ft., (1901), Papineau-

Anna M., stm., 2 tons, 28 ft., (1906), John H. Davis, Kingston, Ont.
Annie, sail, 30 tons, 55 ft., (1853), P. Demers and M. Thibeau, Dover East.
Annie, sail, 70 tons, 96 ft., (1883), Asa Ribble,

Dresden.

ville Lumber Co., Ltd., Papineauville, Que.

Alzora, sail, 43 tons, 65 ft., (1890), Louis Thibert, Belle River. (Lost). Amenda, stm., 6 tons, 36 ft., (1906), W. Stew-

America, stm., 521 tons, 153 ft., (1895), St. Lawrence River Stbt. Co., Ltd., Kingston. Ames, A. E., stm., Canadian Lake & Ocean Nav. Co., Ltd., Toronto.
Ampere, stm., 5 tons, 31 ft., (1894), Allan Marshall, Hamilton. art, Muskoka, Ont.

Macdonald, Toronto.

Anona, Stm., 5 tons, 32 ft., (1903), A. W. Winnert, Kingston, Ont.
Antelope, stm., 20 tons, 60 ft., (1889), George A. Davis, Smiths Falls, Ont.
Antelope, sail, 334 tons, 138 ft., (1873), Albert A. J. Foster and Amelia Ure, Toronto. Annie M., stm., 33 tons, 56 ft., (1900), Mrs. M. A. Clark, Collingwood.
Annie Mc., stm., 13 tons, 33 ft., (1897), Thos. McLeod, Port Arthur. Antelope, sail, 180 tons, 106 ft., (1854), Jos. Glass, Sarnia, Ont. Amy, stm., 40 tons, 55 ft., (1901), Randolph

Arabia, stm., 1515 tons, 233 ft., (1873), J. H. Hall, Ottawa, Ont. tArabian, stm., 1073 tons, 178 ft., (1892), J. B. Fairgrieve, Hamilton.

Arbutus, stm., 49 tons, 63 ft., (1887), Owen Sound Tug, Lighter & Barge Line, Owen Sound.

Arctic, sail, 172 tons, 130 ft., (1858), Catherine Sidley, Belleville.

Arctic, stm., 101 tons, 96 ft., (1893), Deseronto Nav. Co., Deseronto, Ont.
Argo, stm., 20 tons, 50 ft., (1906), D. Foster, Port Coldwell, Ont.
Argo, stm., 7 tons, 27 ft., (1895), C. Bell, Owen

Sound

Argosy, stm., 1 ton, 21 ft., (1883), John E. Ihompson, Toronto.
Argus, stm., 27 tons, 55 ft., (1884), Minister of

Customs, Ottawa.
Argyle, stm., 41 tons, 68 ft., (1891), Sarnia Bay Towing & Salvage Co., Ltd., Sarnia.
Argyle, paddle stmr., 700 tons, 185 ft., (1899), Lake Ontario Navigation Co., Picton.
Ariadne\_stm., 38 tons, 63 ft., (1885), Asa Rib-

Ariadne, sail, 23 tons, 57 ft., (1901), E. Burnside, et al., Wolfe Island, Ont.
Ariadne, sail, 16 tons, 56 ft., (1891), J. Mc-Intosh, South Marysburg.
Ariel, stm., 3 tons, 25 ft., (1900), John H. Mason, Toronto.

Arlington, stm., 23 tons, 61 ft., (1878), Toronto Ferry Co., Ltd., Toronto. Armenia, stm., 110 tons, 100 ft., (1876), Deseronto Nav. Co., Deseronto, Ont.

Armenia, stm., 467 tons, 176 ft., (1873), Adolf Lomer, Montreal, Que. Armour, stm., 191 tons, 87 ft., (1906), R. J. Watson, Burk's Falls, Ont. Armstrong, Charles E., stm., 49 tons, 56 ft.,

(1894), Chas. E. Armstrong, Pt. Col-

borne.
Arnold, Fanny, stm., 73 tons, 89 ft., (1882), Spanish River Co., Spanish River.
Arnott, Mary, stm., 8 tons, 31 ft., (1886), D.
Lowery, Brantford.

Arrah Wanna, stm., formerly Genl. Wm. B. Franklin, 20 tons, 54 ft., (1880), Peter Cavanagh, Perth, Ont.

Arrow, stm., 4 tons, 35 ft., (1901), Minister of Marine and Fisheries, Ottawa.

Arthenise, stm., 11 tons, 34 ft., (1902), N. T. Laplante, Peterborough.

Arthur, sail, 327 tons, 148 ft., (1873), Elias

Rogers Co., Ltd., Toronto. Aryan, stm., 2 tons, 30 ft., (1895), M. R. Davis, Kingston.

†Assiniboia, stm., 3880 tons, 336 ft., (1907),
 Can. Pacific Ry., Montreal, Que.
 †Athabasca, stm., 2269 tons, 262 ft., (1883),
 Canadian Pacific Ry. Co., Montreal, Que.
 Audrey C., stm., 87 tons, 71 ft., (1907),

Audrey C., stm., 87 tons, 71 ft., (1907),
Manley Chew, Midland, Ont.
Augusta, stm., 57 tons, 66 ft., (1883), Daniel
McGrath, Port Dalhousie, Ont.
Augustus, sail, 802 tons, 177 ft., (1893), Montreal
Trans. Co., Montreal.
Aurelia, stm., 34 tons, 56 ft., (1869 and 1903),
Robt. Weddell, Toronto, Ont.

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## CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Austin, J. S., sail, 323 tons, 136 ft., (1863), Algona Central & H. B. Co., Sault Ste. Marie.

Auto Go, stm., 1 ton, 22 ft., (1906), John H. Davis, Kingston, Ont.

Ayr, sail, 299 tons, 132 ft., (1858), Alexander McArthur, Toronto. Azov, sail, 195 tons, 108 ft., (1866), John Mc-Donald, Goderich.

B., sail, 16 tons, 50 ft., (1903), Canada Corundum Co., Ltd., Toronto.
Babineau & Gaudry, sail, 156 tons, 95 ft., (1864), Hiram Ives, Windsor.
Bailey, Emery, sail, 47 tons, 70 ft., (1868), R. Smith, Oakville.

Bain, Jessie, stm., 67 tons, 70 ft., (1888), St. Lawrence River Stbt. Co., Kingston.
Baird, Harry, stm., 42 tons, 61 ft., (1885-1896), James Leighton. Port Elgin.
Baldwin, Mary, sail, 7 tons, 34 ft., (1876), A. Mathews, Lakeport.
Balize, stm., 247 tons, 132 ft., (1863), John Charl-

Ballou, H. M., sail, 80 tons, 80 ft., (1867), E. Goldring, Toronto. ton, Lynedock.

Balmoral, stm., 37 tons, 53 ft., (1899), L. Bellefeuille, Kenora, Ont.
Baltic, sail, 194 tons, 136 ft., (1856), John Galna & R. W. Dauter, Parry Sound.
Bancroft, stm., 10 tons, 37 ft., (1903), R. C. Car-

ter, Deseronto.

Bangs, C. W., stm., 4 tons, 36 ft., (1902), John F. Hurdman, Ottawa.

Baptiste, paddle stmr., 8 tons, 37 ft., (1902), R. C. Carter, Descronto.
Baptiste, St. Jean, sail, 62 tons, 70 ft., (1906), J. B. Dussault, Les Ecureuils, Que.
Barge No. 1, sail, 48 tons, 50 ft., (1898), H. F. Cumming and J. B. McMillan, Cornwall.
Barge No. 2, sail, 60 tons, 81 ft., (1898), Wm. Lawlor, Hawkesbury.

Barge No. 3, sail, 54 tons, 81 ft., (1898), Wm. Lawlor, Hawkesbury.
Barge No. 4, sail, 54 tons, 81 ft., (1898), Contractors Supply Co., Ltd., Ottawa.
Bark Swallow, sail, 14 tons, 42 ft., (1872), J. H. Hill, Port Credit.

Barnes, F. C., stm., 63 tons, 66 ft., (1892), Thunder Bay Cont. Co., Port Arthur, Barlum, John J., sail, 1213 tons, 234 ft., (1890) Algoma Central Railway, Sault Ste. Marie.

Ont.

Barrett, Annie, stm., 42 tons, 58 ft., (1901), Mrs.
Annie Pendergast, Kingston.
Battle, Thomas Freel, stm., 29 tons, 47 ft., (1901), Freeman Green, Dunnville.
Bayfield, stm., 276 tons, 140 ft., (1889), Minister of Marine & Fisheries, Ottawa.
Beatrice, stm., 31 tons, 63 ft., (1877), Wm. J.
Keays, Sarnia.
Beatrice, stm., 7 tons, 35 ft., (1900), Daniel
Dashwood, Dunnville.

Beatrice M., stm., 36 tons, 60 ft., (1902), John Bowman, Rossport.

J. A. A. Descrochers, Beauharnois, Beauharnois, stm., 167 tons, 130 ft., Beaumont, stm., 58 tons, 69 ft., John Stewart, Glasgow, G. B. Beauport, sail, 334 tons, 145 ft., (1873), J. E. Robillard, Montreal, Que. TBeaupre, paddle stmr., 2008 tons, 262 ft., Richelieu & Ont. Nav. Co., Montreal. Beaver, stm., 18 tons, 73 ft., (1883), Thos. Harris, Gore's Landing.

Beaver, stm., 41 tons, 64 ft., (1892), Frank Gilbert, Montreal, Que.
Beaver, stm., 92 tons, 78 ft., (1897), John Carew, Lindsay.
Beaver, stm., 29 tons, 54 ft., (1899), George Chew and Thos. Chew. Midland.

Beaver, stm., 3 tons, 32 ft., (1896), Edward Porter, Hamilton.

Beck, Mary, stm., 16 tons, 48 ft., (1876), John Gidley, Penetanguishene.

Beckett, Thos., sail, 151 tons, 111 ft., (1881),

John O'Toole, Ottawa, Ont. Beckwith, J. L., stm., 61 tons, 60 ft., (1872), Wm. Grierson, Sault Ste. Marie.

Bedford, Mary, sail, 61 tons, 101 ft., (1888). Benj. Tett, Bedford Mills.

Belknap, sail, 46 tons, 81 ft., (1874), John Cooper, Chatham.

Bell, Ida, stm., 6 tons, 28 ft., (1890), C. C. Bates, Clear Creek.
Bell, Ida, sail, 97 tons, 87 ft., (1874), Jas. W. Wye, Kingsville.

Belle, sail, 335 tons, 130 ft., (1897), Montreal Trans. Co., Ltd., Montreal, Que. Belle, stm., 16 tons, 44 ft., (1896), G. A. Brown, Bell, Katie, stm., 2 tons, 31 ft., (1898), John B. McRae, Ottawa. McRae,

Port Burwell.

Belle, stm., 3 tons, 29 ft., (1903), Abner Nichols, Carleton Place. Belle, stm., 7 tons, 37 ft., (1876), Wm. Pilgrim, Meaford.

Belle Amelia, stm., 4 tons, 39 ft., (1883), G. W. Dench, Trenton. Belle (The), stm., 31 tons, 66 ft., (1899), Alexander Kennedy, Meaford, Ont. -Belletta, stm., 2 tons, 21 ft., (1901), Alfred G.

Belleville, formerly Spartan, paddle stmr., 1233 tons, 200 ft., (1865 and 1905), Richelieu & Ont. Nav. Co., Montreal, Que. Benedict, E. G., sail, 155 tons, 104 ft., (1869), Thos. Lucas, Windsor. Peasey, Toronto.

Benham, C. E., stm., 140 tons, 102 ft., (1865), W. J. McMenemy, Bruce Mines.

Benson, Hiram, sail, 275 tons, 140 ft., (1871), Jas. Playfair and W. A. Clarke, Jr., Collingwood.

Berry, stm., 57 tons, 62 ft., (1902), Sylvester Berry, Providence Bay. Bertha, stm., 11 tons, 35 ft., (1901), Frank

Bertha, stm., 18 tons, 51 ft., (1891), F. Montgomery, Parry Sound.
Bertha May, stm., 20 tons, 43 ft., (1886), Chas. Mickle, Gravenhurst. Dompier, Rossport.

†Berthier, paddle stur., 934 tons, 184 ft., (1870), Richelieu & Ont. Nav. Co., Montreal. Bertie E., stm., 8 tons, 29 ft., (1891), F. S. Wright, Leamington. Bessie B., stm., 53 tons., 60 ft., (1904), Jos.

E. Budreau, Rainy River.

Bessie M., stm., 44 tons, 69 ft., (1907), James P. McDonald, Blind River, Ont. Betsey, sail, 19 tons, 45 ft., (1868), Lionel Yorke, Toronto.

Bickerdike, stm., 1515 tons, 233 ft., (1873), Montreal & Great Lakes S. S. Co., Ltd.,

Ottawa, Ont. Bill, stm., 2 tons, 21 ft., (1900), Manley Cross,

Gananoque.

Bismarck, sail, 302 tons, 131 ft., (1871), Alphonse Desrosierre, Lanoraie, Que.

Blake, Edward, stm., 22 tons, 48 ft., (1884),
Wm. Birmingham, Ottawa, Ont.
Blanchard, J. B., sail, 150 tons, 110 ft., (1882),
Ottawa Transportation Co., Ltd., Ottawa,
Blazier, J. S., stm., 89 tons, 80 ft., (1867-1892),
C. S. Boone, Toronto.

Foronto Ferry Co., Ltd., Toronto, Ont.
Bluebell, stm., 752 tons, — ft., (1906), The
Toronto Ferry Co., Ltd., Toronto, Ont.
Bluebell, stm., 12 tons, 48 ft., (1888), Hiram A.
Calvin, Garden Island, Ont.
Bly, Nellie, stm., 13 tons, 42 ft., (1890), Jos.
Goodwin, Toronto.

Bob O'Link, sail, 15 tons, 35 ft., (1870), Zeno
Orton Quick, Point Pelee Island.
Bobs, stm., 9 tons, 36 ft., (1900), Geo. Gooder-

Bobs, stm., 11 tons, 28 ft., (1904), J. L. Rogham, Toronto.

ers, Peterboro, Ont.

Bobs, stm., 38 tons, 66 ft., (1900), The Tema-gami Nav. Co., Ltd., Toronto, Ont.
Bohemian, paddle stmr., 1107 tons, 195 ft., (1873-1900). Name changed to Prescott.
Bolivia, bge., 310 tons, 140 ft., (1874), A. Mondor, Lamoraie, Que.

Bonito, stm., 17 tons, 53 ft., (1879), Lyon Cohen, Montreal, Que.

Boone, C. A., stm., 44 tons, 63 ft., (1883), Chas. S. Boone, Toronto.

Booth, paddle stmr., 347 tons, 140 ft., (1899), John R. Booth, Ottawa.

Booth, Wm., stm., 46 tons, 67 ft., (1888), Henry Quinlan, Belleville.

Boswell, F. J., sail, 153 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.

Bothnia, stm., 833 tons, 178 ft., (1895), Montreal Transportation Co., Ltd., Montreal, Que. Botrel, stm., 18 tons, 50 ft., (1903), J. N. Godin, Three Rivers, Que.

\*Boucherville, paddle stmr., 419 tons, 178 ft., (1886), Richelieu & Ont. Nav. Co., Mon-

Bowman, C. M., stm., 88 tons, 92 ft., (1897), C. M. Bowman and W. J. Strong, Southampton.

Bowman, A. F., stm., 113 tons, 76 ft., (1906), Great Lakes Dredging Co., Port Arthur,

Brace, stm., 9 tons, 21 ft., (1884), Jos. Brace, Hamilton,

Brandon, stm., 176 tons, 75 ft., (1895), J. T. Horne, Fort Williams, Ont.

Brant, stm., 49 tons, 55 ft., (1906), W. E. Phin, Welland, Ont.

Breck, Marion L., sail, 298 tons, 127 ft., (1863), John McGibbon, Sarnia.

British Lion, sail. 80 tons, 84 ft., (1883), James Moss, Dunnville.

River, Ont.

Brittain R. C., stm., 213 tons, 142 ft., (1877), Wm. Scott, Wallaceburg.

Briton, (The), sail, 146 tons, 106 ft., (1862), A. M. Palmatier, Picton. British Lion, stm., 22 tons, 36 ft., (1903), Rainy #Brittanic, paddle stmr., 428 tons, 150 ft., (1866-1892). Northern Nav. Co. of Ontario, Ltd., River Lumber Co., Ltd., Collingwood. Rainy

Brock, W. D., stm., 13 tons, 35 ft., (1905), F. H. Lawrence, Echo Bay, Ont.
Brockville, stm., 191 tons, 105 ft., (1898), Brockville Nav. Co., Ltd., Brockville.

Brockville, formerly Columbian, paddle stmr., 944 tons, 175 ft., (1892 and 1901), Richelieu & Ont. Nav. Co., Montreal.

Bronson, H. F., stm., 137 tons, 91 ft., (1870), Montreal Transportation Co., Ltd., Mon-

Brooks, Alice, stm., 17 tons, 40 ft., (1882), Edw. Brooks, Port Elgin, Ont.

Brothers, stm., 18 tons, 39 ft., (1886), E. T. Morrow, Ft. William.

Brothers, sail, 14 tons, 44 ft., (1874), Jas. Thorburn, Kincardine.

Brown, Gordon, stm., 33 tons, 69 ft, (1901),
A. C. Brown, Port Stanley.
Brown, R. H., sail, 51 tons, 63 ft., (1882), John Cadarette, Belle River.
Bruin, sail, 104 tons, 97 ft., (1881), The Muskooka & Nipissing Nav. Co., Gravenhurst, Brydges, C. J., stm., 39 tons, 62 ft., (1874), Minister of Public Works, Ottawa.

Buckly, James, sail, 442 tons, 160 ft., (1884), Jas. Buckley, Prescott.

Buckly, W. P., stm., 27 tons, 45 ft., (1870), James Buckly, Prescott.

Buffalo, sail, 88 tons, 104 ft., (1865), Abram H. Bradley, Dunnville.

Burma, sail, 885 tons, 183 ft., (1901), The Calvin Co., Garden Island
Burroughs, Geo. T., stm., 130 tons, 109 ft.,
(1881), C. W. Cadwell, Windsor.
Burton, F. H., sail, 137 tons, 103 ft., (1853),
Jio. Hart, Picton.
Butcher Boy, stm., 215 tons, 95 ft., (1879), Victoria Harbour Lumber Co., Ltd., Victoria Harbor. C., sail, 31 tons, 80 ft., (1903), Canada Corundum Co., Ltd., Toronto.

‡Cabot, stm., 465 tons, 155 ft., (1907), Cabot S. S. Co., Ltd., Sydney, N. S. Callender, stm., 2 tons, 20 ft., (1892), Isaac Calumet, stm., 22 tons, 54 ft., (1895), M. M. Boyd, Bobcaygeon.
Calumet, sail, 154 tons, 111 ft., (1889), Ottawa Trans. Co., Ltd., Ottawa. The Calvin, D. 9 stm., 750 tons, 166 ft., (1883), The Calvin Co., Garden Island.
Calvert, W. S., sail, 543 tons, 191 ft., (1874), A. B. Mackay, Hamilton, Ont.
Camilla stm., 54 tons. 68 ft., (1890), Wm.
Fraser, Little Current, Ont.
Canada, sail, 85 tons, 84 ft., (1907), D. B.
McCallum, Wallaceburg, Ont. Dollery, Fairbank.

Canada, stm., 557 tons, 135 ft., (1872), J. S. Nesbit, Sarnia.

‡Canada, paddle stmr., 1768 tons, 248 ft., (1866). Name changed to St. Irenee.
Canada No. 1, sail, 85 tons, 96 ft., (—),
Canada Ice Co., Ltd., Toronto.
Canada, No. 3, sail, 113 tons, 96 ft., (—),
Canada, stm., 312 tons, 123 ft., (1874), Owen
Sound Park Co., Ltd., Toronto.
Canada, stm., 312 tons, 123 ft., (1874), Owen
Sound Park Co., Ltd., Owen, Sound, Ont.
Canton, sail, 304 tons, 142 ft., (1873), Jas. W.
Maitland, Owen Sound.

Capital, stm., 2 tons, 30 ft., (1898), John Harper, et al., Ottawa.
Capital, bge., 178 tons, 79 ft., (1905), J.

O'Leary, Ottawa, Ont.

Caponaning, stm., 18 tons, 41 ft., (1888), The Ontario Lumber Co., Toronto.
Caprice, stm., 9 tons, 35 ft., (1903), A. C. Hardy, Brockville, Ont.
Cardinal, formerly Mayflower, stm., 237

tons, 121 ft, (1875), Edwardsburg Starch Co., Ltd., Montreal, Que. Caribou, stm., 597 tons, 144 ft., (1904), Dominion Fish Co., Winnipeg, Man. Carlotta, stm., 96 tons, 75 ft., (1907), James Playfair, Midland, Ont. †Carlton, stm., F. E. Hall, L'Orignal, Ont. Carlton, stm., 8 tons, 40 ft., (1878), W. F. Thomson, Parry Sound.

Carmana, stm., 56 tons, 90 ft., (1889), T. S. Carman, Belleville. Carmilia, stm., 63 tons, 66 ft., (1902), Minister of Public Wks., Ottawa.

Carne, Derry, stm., 3 tons, 15 ft., (1900), W. D. Morris, Ottawa.
Caroline, stm., 12 tons, 38 ft., (1900), Charles Martin, Midland.
Caroline, sail, 133 tons, 103 ft., (1872), The Minister of Public Works, Ottawa.
Carrie, stm., 3 tons, 29 ft., (1889), G. Crawford, Hamilton.

Carriella, stm., 35 tons, 70 ft., (1869), D. Long, Orillia.

Carveth, Flora, sail, 190 tons, 115 ft., (1873), John McLellan, Bowmanville.
Casey, Lyman, sail, 277 tons, 126 ft., (1867), D. A. Gordon, Wallaceburg. Ont. †Caspian, paddle stmr., 957 tons, 177 ft., (1846),

Lake Ont. & Bay of Quinte Stbt. Co., Ltd., Kingston. Cataract, sail, 193 tons, 105 ft., (1874), F. Mc-

Gibbon, Sarnia.

Cataract, stm., 957 tons, 175 ft., (1882), Myles Transp. Co., Ltd., Hamilton, Ont. Catherine S., stm., 67 tons, 66 ft., (1896), John

Short, Kenora, Ont.
Cayuga, stm., 2196 tons, 305 ft., (1907), Niagara Nav. Co., Ltd., Toronto, Ont.
Cecebe, stm., 11 tons. 31 ft., (1886), The Mustoka & Nipissing Nav. Co., Gravenhurst.
Cecelia: sail. 290 tons, 135 ft., (1865), Geo.
Brooks, Port Dalhousie.

Cemego, stm., 1 ton, 15 ft., (1903), Mrs. F. A. Price, Massanoga. Centennial, sail, 66 tons, 81 ft., (1876), H. O. Brown, Welland. Ceylon, sail, 908 tons, 205 ft., (1891), The Calvin Co., Ltd., Garden Island. Chamberlain, C. W., stm., 385 tons, 127 ft., (1881), Chas. Beck, Penetanguishene. †Chambly, paddle stmr., 535 tons, 153 ft., (1871), Richelieu & Ont. Nav. Co., Montreal Champion, sail, 18 tons, 49 ft., (1867), W. C. Ryan, Sarnia.

66 ft., (1872), Champion, sail, 50 tons, 66 Michael P. Thibert, Belle River.

Champion, paddle stmr., 142 tons, 94 ft., (1868), Geo. Crandell, Lindsay.

Champion, stm., 42 tons, 69 ft., (1904), Thos. W. Wood, Orilla, Ont.

Champlain, stm., 522 tons, 120 ft., (1904), Minister of Marine and Fisheries, Ottawa.

Chance, stm., 5 tons, 43 ft., (1895), John Hewton, Kingston.

Charlie M., stm., 50 tons, 54 ft., (1897), The Muskoko Lakes Nav. & Hotel Co., Ltd., Chapeau, sail, 42 tons, 63 ft., (1889), W. J. Pourpore, Ottawa.

Toronto.

Charlton, stm., 389 tons, 135 ft., (1862), Victoria Harbor Lumber Co., Ltd., Victoria Harbor. Cherokee, sail, 365 tons, 151 ft., (1874), The Montreal Trans. Co., Ltd., Montreal, Que.

Chicora, paddle stmr., 931 tons, 221 ft., (1864) Niagara Nav. Co., Ltd., Toronto.

Chicoutimi, paddle stmr. 110 tons. 92 ft., (1881), Victoria Park Stbt. Co., Ltd., Toronto. Chicoutimi, formerly Saguenay, paddle stmr., 992 tons, 219 ft., (1891), Richelieu & Ont. Nav. Co. Montreal.

Chief, dr'ge., 269 tons, 80 ft., (1903), W. E. Phin, Welland, Ont.

Chieftain, stm., 40 tons, 52 ft., (1889), F. W. Coates, Fort Frances.

Chieftain III., stm., 355 tons, 142 ft., (1906), Calvin Co., Garden Island, Ont. Child, R. F., stm., 5 tons, 35 ft., (——), H. D. Gamble, Toronto.

‡Chippewa, paddle stmr., 1514 tons, 308 ft., (1893), Niagara Nav. Co., Ltd., Toronto. Church, H. F., Itr., 306 tons, 138 ft., (1875), John Garroch. Sarnia.

Cincinnati, sail, 162 tons, 55 ft., (1895), Benj. A. Patterson, et al., Oakville.
Circe, 5tm., 3 tons, 28 ft., (1889), C. W. Tobey,

Collingwood.

City of Alberton, stm., 67 tons, 62 ft. (1897), Preston Bell Furniture & Lumber Co., Ltd., Fort Frances.

City of Bala, stm., 74 tons, 76 ft., (1901), Hunts-ville & Bracebridge Tanning Co., Ltd., Huntsville.

City of Belleville, stm., 101 tons, 89 ft., (1878), Can. Pacific Car & Passenger Transfer Co., Ltd., Prescott.

City of Chatham, stm., 341 tons, 125 ft., (1888), Chatham Nav. Co., Chatham.

City of Dresden, stm., 194 tons, 93 ft., (1872), Chas. D. Shirley, Blenheim.

City of Ladysmith, paddle stmr., 35 tons, 69 ft., (1900), Chas. Ross, Port Maitland.

City of Meaford, stm., 328 tons, 111 ft., (1906), J. Perks, Meaford, Ont. City of Midland, stm., 974 tons, 176 ft., (1890), Northern Nav. Co. of Ont., Ltd., Colling-

Montreal, stm., 1554 tons, 220 ft., Montreal & Lake Erie S. S. Co., (1871), Monu.... r +d.. Montreal, Que. Ltd.,

City of Mount Clemens, stm., 102 tons, 95 ft., (1880), Jas. W. Steinhoff, Wallaceburg.
City of New York, stm., 292 tons, 136 ft., (1863), Geo. Plunkett, et al., Cobourg, Ont.
City of Ottawa, formerly India, stm., 1529 tons, 220 ft., (1871), Montreal & Lake Erie S. S., Co., Ltd., Toronto, Ont.

City of Stratford, stm., 4 tons, 32 ft., (1874), Andrew J. Jeffrey, Stratford.

City of Toronto, paddle stmr., 782 tons, 150 ft., (1895), The Northern Nav. Co. of Ont., Ltd., Collingwood.

City of Windsor, stm., 511 tons, 117 ft., (1883), D. L. McKinnon, Sudbury.
City Queen, stm., 69 tons, 70 ft., (1900), A. L. Nickerson and C. T. Nickerson, J. O. Mid-

12 tons, 44 ft., (1877), Wm. Penn Clara. stm., 12 tor Jaynes, Barrie.

Clara L., sail, 45 tons, 75 ft., (1885), Wm. Hand, Port Dalhousie.

Clara May, stm., 9 tons, 39 ft., (1902), Wm. Newell & Rod'k Shirk, Popular.

Clark Bros., stm., 92 tons, 80 ft., (1890-1901),

Lawrence Solmon, Toronto, Ont. Cleopatra, stm., 104 tons, 113 ft., (1893), A. E. Gooderham and T. G. Blackstock, Toronto,

Clinton, stm., 430 tons, 138 ft., (1874), James | Matthews, Toronto.

Clipper, stm., 46 tons, 62 ft., (1903), The Sable & Spanish Boom & Slide Co. of Algoma, Ltd., Spanish River, Ont.
Clipper, stm., 4 tons, 31 ft., (1880), A. Thompson, Ottawa.

Clive, Lucy, stm., 13 tons, 42 ft., (1900), Minister of Customs, Ottawa.
Clorita, sail, 44 tons, 64 ft., (1898), Geo. H.

Gooderham, Toronto. Clucas, stm., 28 tons, 60 ft., (1882), Dominion Fish Co., Ltd., Winnipeg, Man.

Coboconk, paddle stmr., 9 tons, 30 ft., (1902), Mrs. C. McFadden, Fenelon Falls. Cockell, Bertha L., stm., 24 tons, 65 ft., (1884), Frank Jackman, Toronto, Ont. Cole, C. W., stm., 16 tons, 49 ft., (1903), Claude W. Cole, Milford. Coboconk, paddle stmr., 103 tons, 80 ft., (1876), Wm. Shields, Coboconk.

Ont.
Collop, T. J., paddle stmr., 63 tons, 58 ft., (1894), H. McMillan, Sault Ste. Marie, Collingwood, stm., 4529 tons, 386 ft., (1907), Farrar Trans. Co., Ltd., Collingwood,

Colonial, stm., 47 tons, 52 ft., (1906), Colonial Lumber Co., Pembroke, Ont. Columbia, sail, 84 tons, 101 ft., (1885), Benj. Colonel By, stm., 9 tons, 45 ft., (1863), P. Eligti, Burritt's Rapids.

175 ft., Columbus, stm., 439 tons, 136 ft., (1874), ‡Columbian, paddle stmr., 874 tons, 1 (1892). Name changed to Brockville. Tett, Bedford Mills.

J. Ganley, Sault Ste. Marie, Ont.

Comet, stm., 22 tons, 55 ft., (1876), R. E. Moore | ‡Corona, paddle stmr., 1274 tons, 270 ft., (1896), et al., Harrison.

Comet, stm., 20 tons, 60 ft., (1887), The Rathbun | Coronet, sail, 24 tons, 58 ft., (1887), Lionel

Comet, stm., 20 tons, 60 ft., (1887), The Rathbun Co., Deseronto. Comet, stm., 8 tons, 45 ft., (1895), Josiah Ball,

Comfort, stm., 14 tons, 43 ft., (1891), Peter Baecheler, Sarnia, Ont.

Commodore, stm., 40 tons, 59 ft., (1885), Jos. Gauley, Sault Ste. Marie.

Commodore, paddle stmr., 175 tons, 96 ft., (1867), Geo. Crandell, Lindsay.

Commodore Jarvis, stm., 287 tons, 109 ft., (1908), Sand & Dredging Co., Ltd., Toronto.

Condor, sail, 567 tons, 180 ft., (1888), The Montreal Trans. Co., Ltd., Montreal, Que. Conqueror, stm., 25 tons, 60 ft., (1886), Ira Hill,

Constance, stm., 1 ton, 18 ft., (1885), Jas. Turn-Midland.

bull, Hamilton.
Constance, stm., 185 tons, 115 ft., (1891), The Minister of Customs, Ottawa.

Constance, stm., 52 tons, 82 ft., (1898), Donald M. Grant, Rosseau, Ont.
Cook, A. B., stm., 34 tons, 54 ft., (1885), James Bampton, Welland, Ont.

Cora, stm., 23 tons, 55 ft., (1902), J. B. Bowerman, Port Perry.

Cora, stm., 4 tons, 32 ft., (1887), Oliver B. Sheppard, Toronto.

Coral, sail, 26 tons, 47 ft., (1874), Geo. Blowers, Port Credit, Ont. Corisande, sail, 276 tons, 137 ft., (1873), John C. Miller, Parry Sound.

Corrella, stm., 4 tons, 30 ft., (1889), M. Ken-ville, Brockville. Yorke, Toronto.

Corrina, sail, 36 tons, 48 ft., (1879), Chas. Bertrand, Isle Verte.

Covell, Almeda, stm., 9 tons, 32 ft., (1868), Nathaniel Dickey and John Ginty, Toronto.

Cox, R. M., sail, 168 tons, 112 ft., (1904), Ottawa Transportation Co., Ltd., Ottawa.

Craftsman, sail, 65 tons, 99 ft., (1883), T. Mills,

Kingston.

Craftsman, sail, 266 tons, 132 ft., (1873), John Strong, Port Elgin.
Craig, Annie, stm., 80 tons, 78 ft., (1879 and 1880), Eugene O'Keefe, Toronto.
Crawford, A. V., stm., 51 tons, 72 ft., (1891), Mrs. Ella B. Boone, Toronto, Ont.
Crete, George, stm., 17 tons, 54 ft., (1905), G. Crete, Grand Piles, Que.
Crete, John, sail, 8 tons, 62 ft., (1901), G.

Crete, Grand Piles, Que. Cress, A. D., stm., 47 tons, 49 ft., (1897), Mrs. Ida M. Armstrong, Port Colborne, Ont.

Crow, D. W., stm., 31 tons, 63 ft., (1902), H. E. Crow, Chatham, Ont.

Cruiser, stm., 86 tons, 87 ft., (1887), John B.

Cuba, stm., 931 tons, 177 ft., (1875), Battle Island Trans. Co., Ltd., Montreal, Que. Miller, Toronto, Ont.

Cunningham, James, sail, 176 tons, 110 (1877), Ottawa Trans. Co., Ltd., Ottawa.

## CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Curlew, stm., 9 tons, 35 ft., (1895), H. A. Carrwright, Belleville.
Curlew, stm., 3 tons, 29 ft., (1891), F. H. Gooch,

Curlew, stm., 158 tons, 116 ft., (1892), Minister of Marine and Fisheries, Ottawa.
Curtis, H. C., stm., 36 tons, 52 ft., (1878), W. H. Davis, Ottawa.
Cuthbert, Annie, sail, 36 tons, 55 ft., (1874), Alex. Cuthbert, Cobourg. Toronto.

Cuyler, Geo. W., stm., 56 tons, 64 ft., (1880), B. H. Turner, Little Current.
Cygnet, sail, 27 tons, 44 ft., (1879), Thos. McGraw and R. D. Ewing, Toronto.
Cyprus, sail, 6 tons, 30 ft., (1879), D. J. MacMurchy, Toronto.

Cyrenian, sail, 376 tons, 135 ft., (1879), Geo. E. Smith, Southampton, Ont.

D5, dredge, 210 tons, 85 ft., (1897), Great Lakes Dredging Co., Ltd., Port Arthur,

D30, sail, 147 tons, 70 ft., (1897), Great Lakes Dredging Co., Ltd., Port Arthur,

2, sail, 231 tons, 90 ft., (1897), Great Lakes Dredging Co., Ltd., Port Arthur,

Dack, stm., 18 tons, 46 ft., (1898), W. & W. G. Black, Belleville, Ont.
Daisy, stm., 2 tons, 39 ft., (——), G. B. McGee, Merrickville.

Daisy, stm., 15 tons, 41 ft., (1893), Minister of Public Works, Ottawa.

Dakota, sail, 516 tons, 170 ft., (1885), The Montreal Trans. Co., Ltd., Montreal, Que. Daly, Sarah, stm., 25 tons, 49 ft., (1869), John Jesmer, Sr., Cornwall.

Dandy, sail, 40 tons, 80 ft., (1894), Capital Sand & Brick Co., Ltd., Ottawa. Darling, Grace, stm., 28 tons, 50 ft., (1886-1897), A. J. Shaw, Parry Sound.

Darrow, sail, 91 tons, 49 ft., (1897), David Davidson, Penetanguishene.

Dauntless, stm., 8 tons, 44 ft., (1884), S. C. Mac-Donald, Dunnville.

Dauntless, stm., 23 tons, 47 ft., (1906) E. Smale, Port Bruce, Ont.

Dauntless, sail, 156 tons, 105 ft., (1867), M. J. Glass, Sarnia. Davidson, Fred, stm., 43 tons, 62 ft., (1887), Chas. L. D. Sims, Little Current. Davidson, sail, 150 tons, 110 ft., (1882), The Ottawa Transportation Co., Ltd., Ottawa.

Davie, sail, 81 tons, 46 ft., (1896), David Davidson, Penetanguishene.

‡Davis, Wm., stm., 40 tons, 63 ft., (1897), J. T. Davis, Ottawa.
Davis, W. L., stm., 46 tons, 46 ft., (1882), James.
Garrett, Sault Ste. Marie.

Davitt, Michael, tug, 24 tons, 52 ft., (1885), Mc-Auliffe, Grass & Manley, Thorold. Dawn, stm., 20 tons 48 ft., (1888), S. Purser, Hall's Bridge.

Dawn, stm., 3 tons, 27 ft., (1900), Jos. Cooper, Bracebridge.

Day, Sarah E., stm., 5 tons, 85 ft., (1872), W. M. Tyson, Wiarton.

Defiance, sail, 89 tons, 102 ft., (1859), R. Mc-Laren, St. Catherines.
Defiance, sail, 26 tons, 49 ft., (1845), C. Mc-Craney, Toronto.

Delila, stm., 4 tons, 32 ft., (1896), J. David,

Carmanah.
Delisle, stm., 46 tons, 62 ft., (1869), Minister of Public Works, Ottawa.
Delta, sail, 74 tons, 47 ft., (1898), David Davidson, Penetanguishene.
Demers, Alfred, sail, 131 tons, 105 ft., (1878),
Minister of Public Works, Ottawa.

Denisa, stm., 38 tons, 56 ft., (1905), J. A. Lemay, Portneuf, Que.

Despatch, stm., 33 tons, 71 ft., (1878), W. J. Pulling, Windsor.
Devenish, stm., 3 tons, 32 ft., (1886), W. Packer, Wood Township, Simcoe Co.

Dewey, Jos. B., stm., 25 tons, 67 ft., (1901), Wm. E. Bigwood, Toronto, Ont.

Dey, D. P., stm., 11 tons, 35 ft., (1866), Lyon Cohen, Montreal, Que.

Dickson, paddle stmr., 16 tons, 28 ft., (1890), The Dickson Co., Peterborough.

Diver, J. M., stm., 48 tons, 67 ft., 1904, Reid Wrecking Co., Ltd., Sarnia, Ont. Dixie, sail, 97 tons, 50 ft., (1898), David David-

son, Penetanguishene.

Dobell, W. M., bge., 219 tons, 121 ft., (1906), Ottawa Transp. Co., Ottawa, Ont.

 Dobson, R. H., stm., 44 tons, 75 ft., (1902), Dobson & McLeod, Southampton.
 Dolce, stm., 5 tons, 42 ft., (1894), J. W. Church, Gananoque.

Dolphin, stm., 70 tons, 74 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
Dolphin, stm., 24 tons, 49 ft., (——), J. Playfair, et al., Midland, Ont.
Dolphin, sail, 71 tons, 46 ft., (1896), David Davidson, Penetanguishene.
Dolphin, stm., 13 tons, 50 ft., (1871), Savanagh Lumber Co., 13 tons, 50 ft., (1871), Miss Minnie McVicar, Penetanguishene.
Dolphine, stm., 6 tons, 36 ft., (1901), Miss Minnie McVicar, Paris.
Dominion, dr'ge., 366 tons, 114 ft., (1905), Great Lakes Dredging Co., Port Arthur,

Dominion, paddle stmr., 46 tons, 79 ft., (1884), Francis Burke, Lindsay. Dominion, stm., 478 tons, 135 ft., (1868), Mrs. Henrietta Peck, Windsor. Don, sail, 86 tons, 45 ft., (1892), David Davidson, Penetanguishene.

Donaldson, B. sail, 162 tons, 111 ft., (1881), John O'Toole, Ottawa, Ont. Thonnacona, stm., 1906 tons, 245 ft., (1900), R. O. and A. B. McKay, Hamilton.

Donnelly, paddle stmr, 319 tons, 142 ft., (1863), Donnelly Salvage & Wkg. Co., Ltd., Kingston.

Doone, Lorna, stm., 5 tons, 36 ft., (1893), W. H. Edwards, Bracondale, Ont.

Doone, Lorna, stm., 26 tons, 61 ft., (1896), Mrs. Carrie E. Pratt, Parry Sound.

Dora, stm., 48 tons, 61 ft., (1889), Minister of Public Wks., Ottawa. Dorcas, stm., 3 tons, 31 ft., (1897), Dr. W. F. Jackson, Brockville, Ont.

Doric, formerly Tadousac, stm., 2359 tons,	Dredge No. 8, sail, 187 tons, 82 ft., (1894), W. H.
260 ft., Northern Nav. Co. of Ontario, .	Dredge No. 9. sail. 127 tons. 71 ft. (——). A. G.
Dorothe. stm., 8 tons, 33 ft., (1990), W. F.	McKay, Owen Sound.
Thomson, Rose Point.	Dredge No. 10, sail, 354 tons, 92 ft., (1889),
Dorothy J., stm., 10 tons, 34 ft., (1907),	The C. S. Boone Dredging & Construc- tion Co. Ltd. Toronto Ont
Dortha, stm., 51 tons, 71 ft., (1894), Geo. T. Ful-	Dredge No. 14, sail, 352 tons, 100 ft., (1891),
tord, Brockville.	tion Co. Ltd. Toronto. Ont.
F. Ferguson, North Bay.	Druid, stm., 503 tons, 160 ft., (1902), Minister of
Douglas, stm., 5 tons, 30 ft., (1888), The Geor-	Dryden Bell. stm. 15 tons. 35 ft. (1003). W.
baushene.	Keith & J. M. Stockleton, Dryden.
Douglas, Geo., stm., 42 tons, 56 ft., (1880), James	Dude, sail, 3 tons, 28 ft., (1880), A. Campbell,
Cannan, Owen Sound.	Dudley, F., sail, 154 tons, 108 ft., (1879), The
McCulla Port Credit	Ottawa Transportation Co., Ltd., Ottawa.
Dream, stm., 12 tons, 50 ft., (1886), The Minis-	Dudley, Herbert, sail, 199 tons, 120 ft., (1875),
ter of Customs, Ottawa.	Dewitt Carter, Fort Colbourne.
Dredge Frank, sail, 154 tons, 78 ft., (1892), A. F. Rouman Southamaton	Dudley, Joe, stm., 52 tons, 70 it., (1865), Great Lakes Dredging Co., Ltd., Port
Dredge Hackett, sail. 50 tons. 62 ft., (1897). C.	Arthur, Ont.
M. Bowman, et al., Southampton.	Duke of York, dredge, 187 tons, 74 ft.,
Dredge No. 1, sail, 176 tons, 65 ft., (1903),	(1903), W. J. Poupore, Montreal, Que.
Great Lakes Dredging Co., Ltd., Port	Dunbar, C. F., stm., 33 tons, 47 it., (1871), James Prendergast. Cornwall.
Dredge No. 5, sail, 174 tons, 76 ft., (1896), W. H.	Dundee, sail, 262 tons, 125 ft., (1870), Hugh
Plummer, Sault Ste. Marie.  Dredge No. 6, sail, 313 tons, 90 ft., (1891), Las.	Dundee, stm., 2278 tons, 250 ft., (1906), Dun-
Whalen, Port Arthur.	dee Steamship Co., Hamilton, Ont.
Dredge No. 7, sail, 235 tons, 98 ft., (), Great Lakes Dredging Co., Ltd., Port	Dundurn, stm., 1120 tons, 190 ft., (1882), Hamilton & Montreal Nav. Co. Ltd.,
Arthur, Ont.	Hamilton, Ont.

Dunmore, sail, 675 tons, 182 ft., (1895), Montreal Transportation Co., Ltd., Montreal.

Dunn, Stuart H., sail, 458 tons, 164 ft., (1877-1889), R. L. McCormack, Toronto, Ont. Dunscomb, J. W., sail, 98 tons, 90 ft., (1871), Government of Canada, Ottawa.

Dyment, N. stm., 59 tons, 73 ft., (1900), N. Dyment, Barrie.

Eagle, stm., 14 tons, 43 ft., (1875), A. Miller, Port Elgin. Eagle, stm., 12 tons, 44 ft., (1887), C. R. Morrison, Sarnia.

Eagle, stm., 10 tons, 34 ft., (1898), James Moreau, Port Severn.
Eccles, Katie, sail, 122 tons, 95 ft., (1877), Chas. M. McCallum, Colborne.
Echo, stm., 5 tons, 27 ft., (1901), John S. M. Alexander, Peterborough. Echo, sail, 50 tons, 69 ft., (1869), D. C. Smith, Belleville.

Amherstburg.
Eddie B., stm., 9 tons, 29 ft., (1902), David
Baker, Midland.
Eddy. C. F., stm., 16 tons, 45 ft., (1902),
Blind River Towing Co., Ltd., Sarnia.
Eddy, E. B., stm., 78 tons, 98 ft., (1881), La
Compagnie de Pulpe de Chicontimi, Ltd., Eddie, sail, 28 tons, 59 ft., (1892), H. A. Hackett,

Chicontimi, Que.

Eddy, Ella Clarissa, sail, 141 tons, 111 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa. Edith, stm., 2 tons, 22 ft., (1883), J. P. Clark, Toronto.

Edmond, stm., 39 tons, 56 ft., (1879), B. Tett, Bedford Mills. Edith sail, 353 tons, 130 ft., (1897), The Canada Sugar Refining Co., Ltd., Montreal, Edith Ann, stm., 11 tons, 43 ft., (1903), John Davis, Kingston. Edmond, sail, 68 tons, 75 ft., (1906), E. Perusse, Le Clereville, Que. Edmonton, stm., Mathews Line, Toronto. Que.

Edna, sail, 369 tons, 129 ft., (1897), F. & W. J. Carbray, Quebec, Que. Edna, stm., 9 tons, 31 ft., (1891), Robt. Douglass, Sault Ste. Marie.

Edna, stm., 55 tons, 64 ft., (1898), Mrs. Carrie E. Pratt, Parry Sound.

stm., 12 tons, 36 ft., (1899), Thoms. H. Lawry, Hamilton. Edna,

Effort, sail, 51 tons, 72 ft., (1889), Mrs. Marion Ribble, Dresden.

Eleanor, stm., 26 tons, 56 ft., (1895), Frank Ross, Port Maitland, Ont. Electric, stm., 49 tons, 69 ft., (1887), John J.

Elite, paddle stmr., 22 tons, 60 ft., (1894), Seth Chapman, Gore Bay. Wright, Toronto.

Else, J. C., paddle stmr., 33 tons, 44 ft., (1893), Georgian Bay Lumber Co., Ltd., Waubaushene.

Elsie, stm., 48 tons, 69 ft., (1906), Mrs. M. A. Clarke, Toronto, Ont.

Emaroy, sail, 79 tons, 86 ft., (1879), Nelson Flowers, Ottawa.

Eno,	o '
385 tons,	Cornwall
Garnet, stm.,	ft., (1903), Montreal & Cornwall
Emerald, formerly	140 ft., (1903),

Nav. Co., Ltd., Cornwall, Ont.
Emile, stm., 12 tons, 50 ft. (1892), E. Dufresne, Three Rivers, Que.
Emily, sail, 29 tons, 62 ft., (1890), E. Parent,

Belle River.

Emily May, stm., 30 tons, 59 ft., (1906), M. McInnes, Meaford, Ont. Emma, stm., 146 tons, 89 ft., (1894-1901), Mrs. Carrie E. Pratt, Parry Sound. Emma, stm., 6 tons, 34 ft., (1894), R. S. Watts,

Emma, stm., 2 tons, 28 ft., (1897), W. O. Spear-Hamilton.

man, Ottawa. Emma C., stm., 1 ton, 24 ft., (1890), L. J. Coursolles, Ottawa.

Empress, stm., 36 tons, 63 ft., (1891), French River & Nipissing Nav. Co., Sturgeon

Empress, stm., 84 tons, 93 ft., (1899), Trent Valley Nav. Co., Bobcaygeon. Falls, Ont.

Empress Victoria, stm., 106 tons, 76 ft., (1894), Huntsville Lake of Bays & Lake Simcoe Nav. Co., Ltd., Huntsville, Ont.

Emulator, stm., 25 tons, 49 it., (1890), A. Walton, Magnetawan,

Endress, Bertha. stm.. 32 tons, 42 ft., (1876), H. A. Duncan, Sault Ste. Marie.

Energy, stm., 116 tons, 81 ft., (1883), J. Hackett,

Amherstburg. England, sail, 341 tons, 148 ft., (1863), The Kaine & Bird Transportation Co., Ltd., Quebec, Que.

Enterprise, stm., 18 tons, 58 ft., (1892), Levi Young, Port Bruce. Enterprise, sail, 16 tons, 40 ft., (1864), F. A. Grestwood, Toronto. stm., 7 tons, 32 ft., (1906), Charles Clark, Montreal, Que. Enterprise, sail, 105 tons, 90 ft., (1871), Ontario Bank, Toronto.

Enterprise, stm., 13 tons, 49 ft., [1893), W. J. Poupore, Montreal, Que.

Equal Rights, stm., 6 tons, 36 ft., (1890), G. Robson, Franklin, Ont. Eric, stm., 3 tons, 30 ft., (1902), F. F. Millar, Napanee, Ont.

Eric, stm., 2 tons, 18 ft., (1902), Mrs. Edna R. Price, St. Catharines.

Erie Queen, sail, 217 tons, 115 ft., (1874), James O'Guy, et al., Oshawa. Escort, stm., 40 tons, 44 ft., (1894), The Welland Canal Tug Co., Ltd., Port Colborne.

Espanola, stm., 7 tons, 36 ft., (1897), Spanish River Paper & Pulp Co., Ltd., Toronto. Esperanza, stm., 17 tons, 57 ft., (1876), G. E. Niebergall, Wfarton.

Estella, stm., 9 tons, 38 ft., (1891), Edwin S. Pratt, Parry Sound.
Estelle, stm., 8 tons, 31 ft., (1887), Chas. H. Grylls, Lakefield.

Estelle, stm., 51 tons, 66 ft., (1874), Great Lakes Dredging Co., Port Arthur, Ont. Esturian, paddle stmr., 139 tons, 94 ft., (1897), The Trent Valley Nav. Co., Bobcaygeon. Esturion, paddle stmr., 118 tons, 96 ft., (1884), The Trent Valley Nav. Co., Bobcaygeon. Ethel, stm., 13 tons, 42 ft., (1887), John Hastie, Sheguindah, Ont.

Ethel May, stm., 13 tons, 46 ft., (1897), John
Fleming, Mortimer's Point.

Etta, stm., 13 tons, 40 ft., (1906), N. E.
Picotte, Montreal, Que.

Euphemia, stm., 29 tons, 47 ft., (1903), Wm. Hand, Port Dalhousie. Eureka, stm., 170 tons, 94 ft., (1893), The Minister of Marine and Fisheries, Ottawa.

3 tons, 28 ft, (1906), Francis

Eva, stm., 34 tons, 72 ft., (1881), Irene Crandell, Lindsay. Eva, stm., 3 tons, -- Ont. Blake, Barriefield, Ont.

Eva Belle, stm., 10 tons, 34 ft., (1890), Wm. White, Midland.

Eva Belle, stm., 10 tons, 39 ft., (1892), The Commissioner of Fisheries, Toronto, Ont. Evangeline, stm., 24 tons, 60 ft., (1869), Ch. Sims and Thos. C. Sims, Little Creek, Algoma.

Evans, Robt., sail, 29 tons, 52 ft., (1885), Keewatin Lumbering & Mfg. Co., Ltd., Ham-

Evelyn, stm., 32 tons, 61 ft., (1893), Dominion Fish Co., Winnipeg, Man. Evelyn, stm., 85 tons, 67 ft., (1892), French River Tug Co., Windsor. ilton.

Evelyn, stm., 4 tons, 30 ft., (1906), J. Blewett, Lakefield, Ont. Kingston.

Evelyn, sail, 97 tons, 90 ft., (1867), Wm. Myles,

Everard, stm., 25 tons, 51 ft., (1900), M. Graham, Kagawong.

Everett, Mary, sail, 198 tons, 120 ft., (1867-(1887), John Cooper, Wallaceburg. Excelsior, dredge, 372 tons, 100 ft., (1906), The Owen Sound Dredge & Construction Co., Ltd., Owen Sound, Ont. Express, stm., 4 tons, 35 ft., (1887), John B. Bowerman, Port Perry.

Swift, Kingston.
Fair, Bella, stm., 7 tons, 50 ft., (1881), W. D. Kelley, Bridgenorth.
Fairlina, sail, 17 tons, 46 ft., (1880), Jas. Johns, Fabiola, sail, 131 tons, 95 ft., (1852-1876), James

‡Fairmount, stm., 1895 tons, 248 ft., (1903), Montreal Transportation Co., Ltd., Mon-Fairy, stm., 23 tons, 52 ft., (1878), F. B. Polson, Fairy Queen, stm., 2 tons, 22 ft., (1888), Andrew Newlands, Galt. Southampton. Foronto.

Fashion, stm., 43 tons, 60 ft., (1893), Dominion Dredging Co., Ltd., Gttawa, Ont. Fearless, stm., 46 tons, 56 ft., (1886), Mrs. Sarah M. Carman, Iroquois.

Ferdinand, stm., 76 tons, 87 ft., (1905), F. Fecteau, St. Antoine, Quebec.
Fida, stm., 2 tons, 24 ft., (—), Ben Almos, Falcon, stm., 13 tons, 40 ft., (1874), J. G. Richardson, Brockville. Fidelia, stm., 9 tons, 38 ft., (1897), A. W. Blackford, Toronto, Ont. Fida, stm., 2 Jack Fish.

Florence, sail, 32 tons, 60 ft., (1862), H. Compeau, Belle River. Filgate, paddle stmr., 425 tons, 158 ft., (1879), The Montreal & Cornwall Nav. Co., Ltd., Cornwall, Ont.

Fire Fly, paddle stmr., 214 tons, 108 ft., (1844-1855), Capt. Robineault, Valleyfield, Ont. Fisher, Eliza, sail, 137 tons, 94 ft., (1867), R. C.

Fisk, Edward, stm., 69 tons, 66 ft., (1883), Can. Towing & Wrecking Co., Port Smith, Port Hope.

Fitchugh, Henry, sail, 300 tons, 138 ft., (1866),
Farry Sound Lumber Co., Ltd., Parry Sound,
Flash, stm., 6 tons, 34 ft., (1899-1903), Mrs.
Margaret Breeze, Peterborough.
Fleetwing, sail, 162 tons, 108 ft., (1863), Jos.
Cochrane, et al., Colborne.
Reckwing, stm., 7 tons, 30 ft., (1905), W.
McMaster, Amherst Island, Ont.
Flight, stm., 37 tons, 57 ft., (1875), C. Jones,
Brockville. Arthur, Ont.

Flora, stm., 5 tons, 42 ft., (1892), W. J. Poupore, Montreal, Que. Florence, stm., 133 tons, 91 ft., (1883), Eugene Lamontage, Quebec, Que. Florence, stm., 113 tons, 91 ft., (1885), The Quebec Trans. & Forwarding Co., Ltd.,

Quebec, Que. Florence, stm., 3 tons, 28 ft., (1894), John Mill-

ing, Fredericksburg,
Florence, stm., 62 tons, 81 ft., (1881), The Ottawa Transportation Co., Ltd., Ottawa,
Florence, stm., 27 tons, 54 ft., (1884), Lorenzo McKenny, Huntsville.

Florence, stm., 3 tons, 36 ft., (1886), Chas. Elli-

Florence, stm., 7 tons, 48 ft., (1901), E. P. Ainsworth, Brighton, Ont. Florence. M., stm., 8 tons, 44 ft., (1897), J. McDonald, Sault Ste. Marie. Florence, stm., 3 tons, 35 ft., (1905), R. C. Smith, Montreal, Que. Florissant, stm., 3 tons, 30 ft., (1891), C. Elford,

Flyer, stm., 4 tons, 39 ft., (1892), John Rogers, Port Sandfield. Ford River, sail, 210 tons, 145 ft., (1879), H. W. Richardson, Kingston, Ont. Toronto.

Forester, stm., 5 tons, 32 ft., (1899), Thos. R. Woodside, Port Arthur. Forrester, stm., 3 tons, 30 ft., (1885), J. Flintoft,

Sarnia.

Fort Frances, sail, 26 tons, 52 ft., (1879), Fredk. Thomas Hooper, Kenora, Ont.

Forward, Jessie, stm., 6 tons, 36 ft., (1896), J. F. Walsh, Napanee. Foster, Anna E., sail, 39 tons, 66 ft., (1877), W. Foster, Owen Sound.

Francis, Minnie, sail, 89 tons, 101 ft., (1885), G. B. Magee, Merrickville. Frankie, stm., 24 tons, 41 ft., (1888), John Lee, Wallaceburg.

Freddie, stm., 5 tons, 28 ft., (1897), F. V. Rodgers, Richards Landing. Fraser, B. M., stm., 50 tons, 69 ft., (1900), T. C. Sims, Little Current.

Friendship, sail, 24 tons, 60 ft., (1876), Mrs. Margaret Warden, Bronte. Frontenac, stm., 111 tons, 89 ft., (1901), The Calvin Co., Ltd., Garden Island.
Frontenac, stm., 11 tons, 34 ft., (1903), W. J. A. Fraser, Ottawa, Ont.
Fulton, E. A., formerly A. Boody, sail, 288 tons, 137 ft., (1863), Frank Jackson and J. R. Philp, Toronto.

#Garden City, paddle stmr., 637 tons, 177 ft., (1892), Niagara, St. Catharines & Toronto Nav. Co., Ltd., Toronto. Gales, John, sail, 42 tons, 70 ft., (1879), Joseph Lesperance, Belle River.

Garnet, stm., 19 tons, 53 ft., (1889), James P. MacDonald, Minasaga Island.

Gauther, Gordon, stm., 26 tons, 52 ft., (1884), Dominion Fish Co., Ltd., Winnipeg, Man.

Gauthier, Harold, stm., 36 tons, 9 ft., (1888), O. E. Fleming, Windsor. Geisha, stm., 20 tons, 50 ft., (1900), John

Hendry, Toronto. Gem, stm., 27 tons, 51 ft., (1897), A. S. Smith, Muskoka, Ont.

Gen. Weitzel, stm., 32 tons, 57 ftr, (1881), W. H. Plummer, Sault Ste. Marie.

General Wolseley, paddle stmr., 123 tons, 103 ft., (1884), John Nisbet, Owen Sound. George H., stm., 4 tons, 36 ft., (1886), George A. Hammond, Kingston, Ont. Georgia, stm., 28 tons, 43 ft., (1885), John Sullivan, Little Current.

Georgina, stm., 44 tons, 74 ft., (1893), Sanuel Forrest, Fort William, Ont.

Geraldine, stm., 65 tons, 66 ft., (1893), J. Galna, Parry Sound.
German. W. M., stm., 28 tons, 58 ft., (1888), H. W. Ansley, Port Dover.
Germanic, stm., 1014 tons, 184 ft., (1899), Northern Nav. Co. of Ont., Ltd., Collingwood.
Germinnie, sail, 87 tons, 89 ft., (1906), A. Massicotte, St. Jean Deschaillons, Que.

Gertie, stm., 53 tons, 58 ft., (1903), Samuel Forest, Ft. William.
Gertrude, stm., 76 tons, 75 ft., (1886), The Toronto Ferry Co., Ltd., Toronto.
Gertrude, stm., 3 tons, 27 ft., (1895), P. F. Nolan, Brockville.

tons, 72 ft. (1884), Gidley, J. G., stm., 57 tons, 70 ft., (1901), John J. Conlon, Thorold, Ont. Gilbert, stm., 41 tons, 72 ft Haney & Miller, Toronto, Ont.

Gill, D., sail, 117 tons, 107 ft., (1906), W. Gill, Pierreville, Que.

Gill, Z., sail, 126 tons, 104 ft., (1906), W. Gill, Pierreville, Ont.

Gilphie, stm., 19 tons, 75 ft., (1884), W. Eldridge, Wiarton, Ont. Gipsy, stm., 35 tons, 51 ft., (1906), F. W. Hendry, et al., Toronto, Ont. Gladstone, W. E., stm., 45 tons, 72 ft., (1882), The Lemcke Tug Co., Ltd., Lion's Head, Ont.

Glad Tidings, stm., 10 tons., 42 ft., (1902), Thos. W. Wood, Orillia, Ont. Glenada, stm., 65 tons, 69 ft., (1904), Arthur

Walton, Magnetawan.

Geo. H. Warmington, sail, 502 tons, 178 ft., (1872), E., W. & F. Hall, Ottawa, Ont. Gowanda, stm., 5 tons, 35 ft., (1907), Norman Trotter, Little Current, Ont. Grande Piles, stm., 18 tons, 59 ft., (1904), A. Mongraw, St. Severin, Que. Granger, sail, 21 tons, 50 ft., (1899), George Cadotte, Wolfe Island, Ont. Grant, Kate, sail, 47 tons, 60 ft., (1880), Denis Parent, Tecumseh. Great Western, paddle stmr., 1080 tons, 220
 ft., (1866), Grand Trunk Ry. Co., Montreal, Que.
 Grebe, stm., 9 tons, 38 ft., (1904), J. Scagel, Port Arthur, Ont.
Grenada, stm., 57 tons, 80 ft., (1883), A. Smallman, Dundee, Que.
Grimsby, sail, 331 tons, 137 ft., (1874), Alexander Laplante, Lachine, Que.
Gueet, sail, 11 tons, 45 ft., (1891), W. L. Carr, Gracie, stm., 11 tons, 42 ft., (1894), Robert Smith, Cornwall, Ont. Grantham, sail, 325 tons, 140 ft., (1873), Ira A. Breck, Garden Island. Gravenhurst, stm., 29 tons, 52 ft., (1902), Peter Campbell, Muskoka. Gray, Dolly, stm., 5 tons, 35 ft., (1900), Wm. Howard, Baysville. Gull, sail, 25 tons, 52 ft., (1865-1896), Peter Cote, Belleville. Gwenola, sail, 4 tons, 35 ft., (1906), Hon. Justice Davidson, Montreal, Que. Kingsville. Glengarry, stm., 732 tons, 170 ft., (1872-1886), Adolf Lomer, Montreal, Que. ‡Glenmount, stm., 1957 tons, 249 ft., (1907), Montreal Trans. Co., Ltd., Montreal, Glyn, stm., 20 tons, 47 ft., (1900), S. Shipman, Richard's Landing.
Golden City, stm., 35 tons, 57 ft., (1873), Jas. W. Golden Harbor, sail, 42 tons, 68 ft., (1873), A. Ouelette. Belle River.
Gondola, sail, 91 tons, 102 ft., (1881), E. Hous-Glen Villa, stm., 8 tons, 36 ft., (1906), G. A. Le Baron, North Hatley, Que. Glide, stm., 78 tons, 74 ft., (1866), Montreal Transp. Co., Ltd., Montreal. Glide, stm., 80 tons, 72 ft., (1884), Wm. Lawlor, Hawkesbury, Ont. Go Now, stm., 1 ton, 22 ft., (1904), Geo. H. Funnell, Gananoque, Ont. Good News, sail, 18 tons, 42 ft., (1894), Wm. Appleton, Toronto, Ont. Gorden, stm., 7 tons, 28 ft., (1904), J. Harty, Fort Frances, Ont. Gordon, D. A., stm., 148 tons, 115 ft., (1902), John Lee, Wallaceburg. Gordon, M., stm., 3 tons, 30 ft., (1895), Henry W. Mackey, Keewatin. Gordon, Mary S., sail, 28 tons, 56 ft., (1882), John D. Corstan, Owen Sound. Glenora, stm., 17 tons, 45 ft., (1900), H. W. Saxton, Bayham. Glenrosa, stm., 63 tons, 66 ft., (1891), Arthur Walton, Magnetawan.

Gypsy, stm., 11 tons, 39 ft., (1902), Collins Inlet Lumber Co., Ltd., Toronto.
Gypsie, stm., 3 tons, 25 ft., (1899), Dickson Best, Peterborough, Ont.

#Haddington. stm.. 1603 tons, 256 ft., (1904),
Mathews S. S. Co., Ltd., Toronto, Ont.
Haggart, John, stm., 184 tons, 99 ft., (1887), W.
C. Fremlin, St. Joseph Island.
Halcro, stm., 8 tons, 34 ft., (1889), Sir John
A. Boyd, Toronto, Ont.
Hale, Lo-ne, stm., 22 tons, 37 ft., (1893), J.
J. McFadden, Sault Ste. Marie. Ont.
Hall, stm., 247 tons, 102 ft., (1889), The Ottawa.
Forwarding Co., Ltd., Ottawa.
Hall, No. 1, Edmund, dredge, 246 tons, 79
ft., (1896), Canada Construction & Dredging Co., Ltd., Toronto, Ont.
Hall, Mary P., stm., 104 tons, 82 ft., (1898),
Montreal Transp. Co., Montreal, Que.
Hallie, stm., 2 tons, 25 ft., (1906), Samuel
Anglin, Kingston, Ont.
Hamill, D., stm., 111 tons, 80 ft., (1904),
Josiah Perks, et al., Meaford.
#Hamilton, paddle stmr., 938 tons, 175 ft., (18471895), Richelieu & Ont., Nav. Co., Mon-

‡Hamilton, sail, 799 tons, 202 ft., (1901), Montreal Transportation Co., Ltd., Montreal. Hamilton H., stm., 22 tons, 36 ft., (1894), Geo. Gooderham, Toronto.
Hanlon, John, stm., 37 tons, 71 ft., (1884), Lawrence Solman, Toronto.

Hannah, Arthur, sail, 22 tons, 47 ft., (1899), Andrew Bow and John Gillian, Toronto.
Hardy, dredge, 64 tons, 66 ft., (....), Sand & Dredging Co., Ltd., Toronto, Ont. Harper, Jennie, G., stm., 20 tons, 48 ft., (1874), James Pilgrim, Meaford.

Harrison, stm., 150 tons, 110 ft., (1864), E. J. Harrison, Owen Sound.
Harvey, sail, 65 tons, 70 ft., (1897), Robt. Kennedy, Lindsay.

Hastings, sail, 36 tons, 61 ft., (1897), Frank

Hattie Ann, sail, 51 tons, 84 ft., (1883), James Mullens, Belleville. Burnett, Birdsall.

Hattie H., sail, 134 tons, 108 ft., (1888), The Ottawa Transportation Co., Ltd., Ottawa. Hawywa, stm., 4 tons, 35 ft., (1896), J. C. Bren-

nan, Ottawa.

Hazard, stm., 34 tons, 62 ft., (1892), E. Harris, Port Dover.

Hazel W., stm., 4 tons, 29 ft., (1897), Mrs. Susan McNabb, Sauft Ste. Marie, Ont. Hazlitt, paddle stmr., 24 tons, 41 ft., (1902), The Dickson Co., Ltd., Peterborough.

H. B., sail, 541 tons, 170 ft., (1890), Jas. Buckly, Prescott.

Heather Belle, stm., 20 tons, 50 ft., (1882), Emerson Danagh, Owen Sound. Heather Belle, sail, 121 tons, 93 ft., (1868), R.

Heather Belle, stm., 9 tons, 35 ft., (1902), Sidney E. McKinnon, Toronto. Gawley, Eastnor.

Hebron, stm., 149 tons, 98 ft., (1899), Jas. H. Hall, et al., Ottawa.

Station, Ont.
Hiesordt, P. S., stm., 45 tons, 66 ft., (1887), W. J. Bell, Sudbury.
High View Launch, stm., 2 tons, 25 ft., (1893), Mrs. Maria McAllister, Pembroke.
Highland Belle, formerly Van Woodland, stm., 37 tons, 75 ft., (1900), French River & Nipissing Nav. Co., Ltd., Sturgeon Falls, Ont.
Hilda, sail, 418 tons, 160 ft., (1898), Montreal Trans. Co., Ltd., Montreal, Que.
Hill, Annie C., stm., 14 tons, 36 ft., (1890), John Freeman Hodgkins, Evelyne, stm., 4 tons, 29 ft., (1888), Freeman Hodgkins, Toronto.
Hodgson, Fred A., stm., 63 tons, 83 ft., (1890), Arza Lymburner, Tp. Eastnor, Ont.
E. Bigwood, Toronto. Hiawatha, stm., 163 tons, 92 ft., (1874), Sarnia Tug & Transit Co., Sarnia.
Hiawatha, stm., 46 tons, 56 ft., (1895), Royal Aradian Yzeth Club, Toronto.
Hickler, Laura, stm., 13 tons, 46 ft., (1883), W. W. Grant and C. H. Ramsey, Spanish Home Rule, stm., 81 tons, 74 ft., (1890), Miss A. M. Hackett, Amherstburg. Home Rule, stm., 3 tons, 28 ft., (1887), Wilfred France, Penetanguishene. Homer, sail, 25 tons, 47 ft., (1898), Robt. Kennedy, Lindsay. Hope, stm., 170 tons, 95 ft., (1870), Bridgeburg & Black Rock Ferry Co., Ltd., Fort Erie. Hector, stm. 66 tons, 67 ft., (1873), M. J. Hogan, Montreal, Que. Helen, sail, 61 tons, 79 ft., (1882), J. H. Gold-Helen S., stm., 86 tons, 80 ft., (1899), The Collin's Inlet Lumber Co., Ltd., Toronto.
Helena, stm., 13 tons, 44 ft., (1877), Jos. C. Huckins, Toronto. Hiawatha, paddle stmr., 22 tons, 48 ft., (1901), R. Kennedy, Lindsay. Hiawatha, sail, 518 tons, 176 ft., (1890), Montreal Trans. Co., Ltd., Montreal, Que. Helen, stm., 5 tons, 34 ft., (1877), B. Mackie, Helen, stm., 3 tons, 25 ft., (1906), H. L. Bastien, Hamilton, Ont. Helen, S., stm., 13 tons, 38 ft., J. W. Short, Henrietta, stm., 3 tons, 28 ft., (1894), J. Edwards, Hamilton. Herbert, stm., 21 tons, 42 ft., (1897), James Connor, Port Arthur. Herbert M., stm., 26 tons, 43 ft., (1887), Chas. Mickle, Gravenhurst. Hercules, stm., 234 tons, 100 ft., (1906), Minister of Public Works, Ottawa, Ont. Here C., stm., 7 tons, 49 ft., (1899), Mrs. Barbara Davis, Kingston. Hepburn, stm., 15 tons, 50 ft., (1901), John H. Wilmot, Beaumaris. Hero, stm., 37 tons, 65 ft., (1861), Thos. Barrie, Sombra, Ont. Hewis, J. D., stm., 51 tons, 55 ft., (1892), David Hewis, Midland. ring, Toronto. Little Current. Kenora, Ont.

Hortense, Laure, sail, 50 tons, 66 ft., (1906), W. Bhereur, St. Fidele, Que.

Horton, stm., 66 tons, 72 ft., (1906), W. Marlton, Goderich, Ont. Hosanna, stm., 89 tons, 58 ft., (1893), The Minister of Marine & Fisheries, Ottawa,

Ont.

Hotchkiss, Fred, stm., 18 tons, 48 ft., (1870), Muskoka Mill & Lumber Co., Toronto. Houghton, stm., 49 tons, 60 ft., (1863), N. Dyment, Barrie.

Hudson, stm., 45 tons, 73 ft., (1899), H. E. Hudson & J. C. Hudson, Barry's Bay.Hugh, S., stm., 24 tons, 50 ft., (1897), Mrs. Hannah N. Stalker, Collingwood.

Humber, stm., 2 tons, 26 ft., (1906), C. T.

Munroe, Gananoque, Ont.

Hume, Jessie, stm., 58 tons, 62 ft., (1894), Minister of Public Works, Ottawa.
Hunter. stm., 11 tons, 30 ft., (1903), Wm. H.

Boucha, Kenora, Ont.

Hunter, Isaac, sail, 23 tons, 50 ft., (1906), Colonial Lumber Co., Pembroke, Ont. Hunter, John, stm., 32 tons, 54 ft., (1885), James Murray, St. Catherines.

Hunter, Nellie, sail, 172 tons, 101 ft., (1874), Jos. Darian, Lanoraie, Que.Huron, stm., 70 tons, 71 ft., (1882), The Ontario Lumber Co. Toronto.

Huron, sail, 475 tons, 160 ft., (1881). Montreal Trans. Co., Ltd., Montreal, Que. Huron, dredge, 135 tons, 64 ft., (1902), E. Huron, dredge, 100 cc., . Que.

Huron, stm., car ferry, 1052 tons, 238 ft., (1875), Grand Trunk Ry. Co., Montreal, Que. Huron\_Belle, stim., 27 tons, 50 ft., (1889), Geo.

Huronic, stm., 3330 tons, 321 ft., (1902), Northern Nav. Co., of Ont., Ltd., Collingwood, Ont. Hydra, stm., 6 tons, 40 ft., (1892), Seth Benson, A. Fraser, Simcoe.

Deseronto. Hygeia, stm., 2 tons, 30 ft., (1886), Samuel May, forento. X. L., dredge, 348 tons, 103 ft., (1893),
 R. Weddell, Trenton, Ont.
 Iagara, stm., 7 tons, 40 ft., (1901), John H. Davis, Kingston.
 Ice, sail, 41 tons, 47 ft., (1891), Chas. Perrault, Sandwich.

Ida, sail, 58 tons, 69 ft., (1885), W. C. Edwards, et al., Rockland. Ida, stm., 19 tons, 44 ft., (1887), Murdock, Mc-Innes and A. B. Sutherland, Port Caldwell. Ida. stm., 21 tons, 46 ft., (1881), Arthur Starkey, Parry Sound.

Ida II., stm., 17 tons, 55 ft., (1906), John H. Davis, Kingston, Ont. Ida Bell, stm., 6 tons, 28 ft., (1890), Chas. Bates,

Clear Creek, Ont. Ida Bell, sail, 97 tons, 87 ft., (1874), Jas. W. Wye, Kingsville.

Ida M., stm., 14 tons, 60 ft., (1890), John Mc-Cormick, Pelee Island. Idle Wild, sail, 19 tons, 49 ft., (1882), A. Rochfort, Kingston.

Iroquois, dredge, 231 tons, 92 ft., (1889), E. A. D. Morgan, Montreal, Que. Iroquois, stm., 240 tons, 104 ft., (1902), Goderich Engine & Bicycle Co., Ltd., Goderich. Iroquois, stm., 2 tons, 22 ft., (1903), Mrs. F. A. Price, Massanoga. Iona, stm., 21 tons, 60 ft., (1906), John H. Davis, Kingston, Ont.
Ionic, formerly Cuba, stm., 1030 tons, 238 ft., (1872), Northern Nav. Co. of Ontario, Ltd., Collingwood, Ont.
Iota, stm., 6 tons, 34 ft., (1894), G. Hamilton, Spanish River. Ireland, sail, 339 tons, 147 ft., (1863), James Buckly, Prescott.
Ireland, W. S., stm., 105 tons, 86 ft., (1872), John Cooper, Chatham. Irene, stm., 7 tons, 42 ft., (1887), Geo. F. Oakley and T. H. Allen, Toronto. Iris, stm., 16 tons, 47 ft., (1903), Francis W. Merchant, London. Iroquois, sail, 361 tons, 141 ft., (1875), Sincennes-McNaughton Line, Ltd., Mon-Iona, stm., 232 tons, 123 ft., (1892), E. A. Hall, L'Original. Irene, stm., 3 tons, 25 ft., (1892), Harry Leslie, Port Colborne. Irene, stm., 3 tons, 31 ft., (1881), Chas. Wynn, Irene, stm., 24 tons, 26 ft., (1887), Thos. Christie, Irene, stm., 45 tons, 69 ft., (1887), Ira Hill, Midland, Ont. treal, Que. Peterboro. Hamilton. Idonna stm., 4 tons 29 ft., (1907), George H. Funnell, Gananoque, Ont.
Illicilliwaet, stm., 16 tons, 50 ft., (1897), G. A. Hammond, Kingston, Ont.
Imperial, sail, 413 tons, 120 ft., (1902), Thunder Bay Contracting Co., Ltd., Port Arthur, Ont.
Imperial, stm., 36 tons, 54 ft., (1876), James Ganley, Sault Ste. Marie.
Ina, stm., 27 tons, 53 ft., (1904), John Galna and R. W. Danter, Parry Sound.
Ina, stm., 14 tons, 56 ft., (1901), Wm. J. Gage, Toronto.
India, stm., 976 tons, 215 ft., (1899), The Calvin Co., Ltd., Garden Island. Inn, The, stm., 2 tons, 25 ft., (1905), F. J. Henderson, Gananoque, Ont. Hinternational, stm., 851 tons, 210 ft., (1872), L. E. & Det. River Ry. Co., Walkerville, Ont. International, stm., 395 tons, 182 ft., (1881), Can. Pac. Car & Pass. Transfer Co., Ltd., Prescott. Inter-Ocean, stm., 144 tons, 103 ft., (1881), The Muskoka & Nipissing Nav. Co., Gravenhurst. Interocean, 156 tons, 74 ft., (1888), E. G. Inez, stm., 59 tons, 65 ft., (1884), Thunder Bay Contracting Co., Ltd., Port Arthur, Inez, stm., 2 tons, 24 ft., (1889), Geo. T. Tuckett, Hamilton. Indiola, stm., 6 tons, 34 ft., (1905), Isaac N. Devins, Toronto, Ont. Interocean, 156 tons, 74 th, 1100, 1100, Shortis, Wallaceburg.
Iola, stm., 13 tons, 37 ft., (1903), R.
Lovell, Toronto, Ont. Ont.

\*Iroquois, The, stm., 2359 tons, 260 ft., (1902), St. Lawrence & Chicago S. N. Co., Ltd.,

Toronto, Can. Isabella, sail, 33 tons, 57 ft., (1875), A. Ouellette, Belle River. Ishkoodah, stm., 3 tons, 30 ft., (1893), G. S. Ryer-

Isis, sail, 96 tons, 105 ft., (1884), P. Larkin, St. Catharines, Ont., and A. Sangster, Iro-

Island Belle, stm., 31 tons, 64 ft., (1882), J. Garrock, Sarnia.

Islander, dredge, 242 tons, 78 ft., (1905), F.

Simpson, Toronto, Ont.
Island Queen, stm., 98 tons, 91 ft., (1887), L. J.
Cosgrove and P. J. Craig, Toronto.
Island Queen, sail, 28 tons, 52 ft., (1897), Mary
Raines, Toronto.
Island Queen, stm., 129 tons, 97 ft., (1905),
The Toronto Ferry Co., Ltd., Toronto.
Islander, stm., 165 tons, 100 ft., (1900), The
Muskoka Lakes Nav. & Hotel Co., Ltd., To-

Islay, stm., 175 tons, 116 ft., (1895), Chas. Mc-Inness, Orillia.
Ivan, Edna, stm., 54 tons, 79 ft., (1900), James Purvis, Gore Bay.
Ivy stm., 7 tons, 44 ft., (1884), D. B. Maclennan, Cornwall.

Jackman, Frank, stm., 39 tons, 65 ft., (1868), W. J. Finn, et al., Montreal, Que. James, sail, 153 tons, 108 ft., (1882), The Ottawa Transp. Co., Ltd., Ottawa.

Jamieson, Wm., sail, 143 tons, 100 ft., (1878), D. Galbraith, Whitby.

Jarmin, T. J., stm., 47 tons, 60 ft., (1889), C. S. Boone, Toronto, Ont.

J. B. P. No. 1, sail, 65 tons, 70 ft., (1891), Jos. Briggs Parkin, Lindsay.

J. B. P. No. 2, sail, 29 tons, 38 ft., (1897), Jos. Briggs Parkin, Lindsay.

Jos. Briggs Parkin, Lindsay.

Jean, stm., 21 tons, 49 ft., (1889), H. P. Boyd, Fort Burwell, Ont.
Jean, stm., 7 tons, 35 ft., (1905), C. O. Clark, St. Paul, Que.
Jennie, A. H. stm., 197 tons, 119 ft., (1882), Agnes M. Britnell, Toronto, Ont.
Jerry, Gordon, stm., 124 tons, 102 ft., (1884), S. W. Marchment, Toronto.

Jessie, stm., 9 tons, 31 ft., (1900), Stanley Burton, Peterborough.

Jessie, sail, 29 tons, 63 ft., (1869), R. Kimberley, Portland. Jessie, M., stm., 14 tons, 42 ft., (1903), Alphonse Metive, Algoma Mills.

Jessie B., stm., 5 tons, 29 ft., (1905), Wm. Dompier, Port Coldwell, Ont.

Jet, sail, 312 tons, 137 ft., (1871), Montreal
Trans. Co., Ltd., Montreal, Que.
J. E. W. H., sail, 73 tons, 76 ft., (1906),
Mrs. E. Heppell, Bic, Que.
J. M. No. 1, sail, 73 tons, 75 ft., (1890), Jos.
Maunder, Lindsay.
J. M. No. 2, sail, 80 tons, 75 ft., (1890), Jos.
Mannder, Lindsay.
J. M. K. No. 1, sail, 64 tons, 86 ft., (1897),
W. J. C. Boyd, Bobcaygeon.

	or the carrie community of
J. M. K. No. 3, sail, 72 tons, 81 ft., (1897),	
W. J. C. Boyd, Bobcaygeon.	
J. M. K. No. 4, sau, 66 tons, 72 tt., (1897),	Juanita, stm., 3 tons, 30 ft., (1880), James Mor-
J. M. K. No. 5, sail, 59 tons, 74 ft., (1897),	
W. J. C. Boyd, Bobcaygeon, J. M. K. No. 6, sail, 53 tons, 64 ft. (1897),	
W. J. C. Boyd, Bobcaygeon.	lace, Port Carling. Jumbo, sail, 150 tons, 138 ft. (1880), Can. Pac.
W. J. C. Boyd, Bobcaygeon.	
J. M. K. No. 8, sail, 40 tons, 02 ft., (1692), W. I. C. Boyd. Bobcavgeon.	
Jim & Tom, stm., 33 tons, 63 ft., (1907),	Juno, stm., 28 tons, 62 ft., (1887), Dominion
Jas. & T. H. Low, Port Dover, Ont.	
Lake of Bays & Lake Simcoe Nav. Co., Ltd.,	Kaministiania etm 150 tons 100 ft (1886).
Huntsville. Tobana sail 40 tons 60 ft (1887) M Thi.	
bert. Jr Belle River.	Kate, stm., 15 tons, 63 ft., (1902), H. M. Mowat,
Johnston, Wm., stm., 95 tons, 85 ft., (1878), The	Toronto.
Calvin Co., Ltd., Garden Island.	Nate, stm., os tons, os it., (1999), J. Ganiey,
Jolly Four, stm., 10 tons, 30 it., (), Harry Oldfield, Parry Sound	Kathadin, sail, 381 tons, 150 ft., (1888), Spanish
Jones, Birdie, stm., 2 tons, 28 ft., (1885), A. W.	River Lumber Co., Spanish River.
Jones, Ottawa.	Toronto Ferry Co., Ltd., Toronto.
Jones, Charlie, stm., 10 tons, 43 ft., (1904), Charlie Iones, Owen Sound.	Kathleen, stm., 51 tons, 60 ft., (1899), A.
Jopl, stm., 11 tons, 52 ft., (1895), John Paul,	Kobertson, Kenora, Ont. Katie, stm., 4 tons, 30 ft., (1896), C. P. Chis-
Icedan Tohn ctm & tone 90 ft (1908) Blind	holm, Oakville.
River Towing Co., Blind River.	Kawartha, stm., I7 tons, 46 ft., (1900), William Burgovne Fenelon Falls
Josie, stm., 12 tons, 32 ft., (1897), D. L. Mather,	Keepsake, sail, 45 tons, 72 ft., (1880), Horace
I. R. A. No. 1, sail 43 tons, 60 ft. (1884) W.	Keewatin stm 82 tons 89 ft (1899) I T
Marleton, Goderich.	Horne, Fort William, Ont.

tKeewatin, stm., 3865 tons, 336 ft., (1907),
Canadian Pacific Ry., Montreal, Que.
Keewatin, sail, 199 tons, 120 ft., (1888), A.
Campbell, Lakeport.
Kegabonga, stm., 14 tons, 36 ft., (1899), Gilmour & Hughson, Ltd., Hull, Que.
Kenirving, stm., 145 tons, 104 ft., (1900), Edward Smith, Storrington.
Kennedy, Susie, stm., 4 tons, 27 ft., (1904),
M. Burton, Barrie, Ont.
Kenneth, stm., 4 tons, 38 ft., (1889), Geo. Mor-

row, Cornwall.

Kenosha, paddle stmr., 266 tons, 112 ft., (1891), Jos. B. Parkin, Lindsay. Kenozha, stm., 225 tons, 100 ft., (1883), The Muskoka & Nipissing Nav. Co., Gravenhurst

Kestrel, stm., 7 tons, 38 ft., (1900), James Playfair, Midland.

Kilbirnie, stm., 15 tons, 45 ft., (1887), R. J. Brodie, Smith's Falls.

Kildare, stm., 5 tons, 32 ft, (1901), Wm. Lafrelle, Hamilton.

Killarney Belle, stm., 28 tons, 52 ft., (1892), The Manitoulin Ranch & Lumber Co., Ltd., Walkerville, Ont.

‡King Edward, stm., 571 tons, 175 ft, (1891), Algoma Central S. S. Line, Sault Ste. Marie. (1887), (1987), Ont King, Euretta, sail, 130 tons, 110 ft. King Edward, stm., 24 tons, 50 ft., Mrs. Alica McMurchy, Trenton, Allan J. Holloway, Toronto.

Kitchen, J. B., sail, 302 tons, 132 ft., (1873), Geo. Plunkett, Cobourg, Ont. Kismet, stm., 5 tons, 86 ft., (1894), E. B. Bur-rell, Belleville. Klein, stm., 15 tons, 89 ft., (1903), Mrs. Elizabeth A. Knowles, Toronto. Klondike, stm., 2 tons, 25 ft., (1808), E. W. Jenkins, Magnetawan

Kolfage, John G., sail, 88 tons, 79 ft., (1869-1883), James Schell & R. Reid, Red 'Knight, Joe, stm., 14 tons, 85 ft., (1867), James Murray, St. Catharines, Ont. 1883), Jame Bay, Ont.

Kuskanook, stm., 1008 tons, 193 ft., (1906), C. P. R., Montreal, Que.

Ladas, stm., 54 tons, 73 ft., (1894), Victoria Harbor Lumber Co., Ltd., Toronto.

Lady Franklin, stm., 5 tons, 36 ft., (1901), Thos. Stanton. Sparrow Lake. Lady Grey, stm., 733 tons, 172 ft., (1906), Minister of Marine & Fisheries, Ottawa, La Belle, stm., 75 tons, 72 ft., (1879), II. A. Hackett, Amherstburg. Out.

Lady Ida, paddle stmr., 28 tons, 54 ft., (1878), John Eldridge, Omemee. Lady of the Lake, stm., 7 tons, 41 ft., (1902), Chas. J. Gibson, Toronto.

Lady of the Lake, stm., 47 tons, 70 ft., (1902), Frank Henman, Thornbury. Lady of the Lake, stm., 33 tons, 60 ft., (1897), W. B. Kelly, Bridgenorth.

FROM THE BLUE BOOK OF AMERICAN SHIPPING. COPYRIGHTED, 1969,

Tingston, paddle stmr., 2925 tons, 288 ft., (1991).
Richelieu & Ont. Nav. Co., Montreal, Que.

Lady of the Lake, stm., 10 tons, 49 ft., (1886), The Huntsville, Lake of Bays & Lake Simcoe

Nav. Co., Huntsville.
Lady Smith, stm., 6 tons, 40 ft., (1893), Chas. C. Pilkey, Orillia.
Lady Smith, sail. 6 tons, 86 ft., (1900), Wm. H. White, Lakefield.
Lake, stm., 13 tons, 40 ft., (1901), Fred D. Brown, Toronto.
Lake, Annie, stm., 19 tons, 64 ft., (1894), J. C. Lake, Belleville.
Lake, Belleville.
Lake Joseph, stm., 28 tons, 52 ft., (1800), The Muskoka & Nipissing Nav. Co., Ltd.,

Gravenhurst.

Lake Michigan, stm., 588 tons, 136 ft., (1872),
Malcolm McKenzie, Sarnia, Ont.

Lakefield, stm., 33 tons, 63 ft., (1904), Frank
and A. F. Stanton, Sparrow Lake, Mus-

Lakeside, stm., 348 tons, 121 ft., (1888), Lakeside Nav. Co., Ltd., Walkerville.

Lancaster, stm., 40 tons, 65 ft., (1895), L. Marcil, Lancaster, Ont.

‡Landowne, pass. stm., 1571 tons, 294 ft., (1884), G. T. R. Co., Montreal, Que.

Laprairie, paddle stmr., 600 tons, 197 ft., (1869-1894), Richelieu & Ont. Nav. Co., Montreal, Lapwing, sail, 516 tons, 175 ft., (1892), The Montreal Trans. Co., Ltd., Montreal, Que.

Lark, sail, 303 tons, 136 ft., (1871), The Montreal Trans. Co., Ltd., Montreal, Que.

Larkin. Hubert, stm., 49 tons, 61 ft., (1882), W. J. Poupore, Ottawa.

Larned, L. C., sail. 43 tons, 72 ft., (1875), D. W. Crowe, Chatham.

La Tuque, stm., 110 tons, 76 ft., (1906), O. Laing & M. Cloutier, Gr. Piles, Que. Laughlin, Mary A., stm., 23 tons, 48 ft., (1871), J. J. Westgate, Montreal, Que. Laura B., stm., 2 tons, 25 ft., (1906), G. A. Whitmarsh, Gananoque, Ont. Laura D., sail, 36 tons, 64 ft., (1884), Richard La Rush, Kingston.

Laura Grace, stm., 86 tons, 64 ft., (1901), The Lake Superior Tug Co., Ltd., Port Arthur. Laura M., stm., 18 tons, 44 ft., (1894), N. Jorgensen, Port Caldwell, Ont.

Laura Mc., stm., 2 tons, 26 ft., (1900), Thos. McConnell, Lindsay. Larson, Julia, sail, 61 tons, 72 ft., (1877), Thoms. Strong, Port Elgin. Lassie, stm., 6 tons, 36 ft., (1903), T. A. Fraser, Hastings.

Laverdure, E. G., stm., 54 tons, 66 ft., (1889), E. A. D. Morgan, Montreal, Que. \*Leafield, stm., 1454 tons, 249 ft., (1892), Algooma Central S. S. Line, Sault Ste. Marie. Lee. stm., 9 tons, 46 ft., (1897), J. McGraw, Brockville.

Lee, Senior, John, stm., 88 tons, 86 ft., (1888), John Lee, Sr., Wallaceburg. Lee. Geo. W., sail, 8 tons, 32 ft., (1876), A. Covell, Brighton.

Lesson. Margaret Jane, sail, 148 tons, 113 ft., (1879), Joseph Battle, Thorold, Ont. Leighton, James, stm., 23 tons, 39 ft., (1875), James Leighton, Port Elgin.
Lena, stm., 14 tons, 45 ft., (1898), Edw. W. and Allan Ross, J. O. Tp. of Dunne.

Leone, stm., 4 tons, 37 ft., (1899), Frederick Huck. Rockport. Lewis, Elgin L., stm., 50 tons, 7 ft., (1904), Traders' Bank of Canada, Toronto, Ont. Lewis, stm., 1 ton, 24 ft., (1887), John Bradley, Lieuedin, Minnie, sail, 64 tons, 94 ft., (1878), C. F. Gildersleeve, Kingston. Lilias, stm., 2 tons, 36 ft., (1902), Thos. F. Lia, sail, 21 tons, 53 ft., (1888), James Eccles, Belleville. Libbie, stm., 3 tons, 28 ft., (1898), Wellington McDonald, Lakefield. Dundas.

Lillian, stm., 6 tons, 30 ft., (1893), Chas. Martin, Jr., Simcoe. Lilias, stm., 2 tons, Ahearn, Ottawa.

Lillian, stm., 2 tons, 26 ft., (1896), S. G. Lindsay, Ottawa.

Lillian, sail, 20 tons, 55 ft., (1859), James Blowers, Toronto. Lillie, stm., 3 tons, 32 ft., (1888), A. Ferguson,

Lillie, stm., 50 tons, 70 ft., (1885), S. J. Sanford, Barrie. Escott.

Lillie, sail, 46 tons, 70 ft., (1884), Julia Neveaux, Windsor.

Lilly, stm., 22 tons, 50 ft., (1890), The Victoria Harbor Lumber Co., Ltd., Toronto.
Lilly May, stm., 10 tons, 32 ft., (1895), United Factories, Ltd., Toronto. Linden, stm., 4 tons, 40 ft., (1902), Henry Wal-

Lion, stm., 5 tons, 31 ft., (1902), Albert McCalton, Magnetawan. lum, Toronto.

Lithophone, sail, 14 tons, 55 ft., (1881), Walter G. Naish, Port Credit.
Little Gem. stm., 2 tons, 24 ft., (1886), Henry Groff, Sincoe. Lizzie May, stm., 18 tons, 55 ft., (1897), D. C. Wilman & H. Bennett, Monitoulin Isld., Ont.

Llano, stm., 14 tor s, 53 ft., (1900), Elmore Harris, Toronto. Locke, P. B., sail, 305 tons, 134 ft., (1888), Michael J. Haney, Toronto. Logie, John, stm., 37 tons, 76 ft., (1893), John

Wm. (1904), Lolita, stm., 2 tons, 24 ft.,

Funnell, Gananoque, Ont.

Longueuil, paddle stmr., 379 tons, 170 ft., (1884-1900), Richelieu & Ont. Nav. Co., Montreal.

Lorielie, stm., 6 tons, 38 ft., (1899), Melville
Srrickland, Lakefeld.

Lorraine, sail. 63 tons, 81 ft., (1882), Jno. S.
Phillips, Wolfe Island. Lothair, stm., 413 tons, 129 ft., (1872), J. C. Miller, Parry Sound.

Lotus, stm., 8 tons, 35 ft., (1907), E. E. Harris, Amherstburg, Ont. Lotus, stm., 7 tons, 42 ft., (1884-1901), Wm.

Lotus, stm., 26 tons, 44 ft., (1906), J. H. Wilmott, Beaumaris, Ont. Berry, Port Stanley.

Lotus, sail, 56 tons, 45 ft., (1889), R. B. Rogers, Louisa, stm., 6 tons, 26 ft., (1875), C. Cottrell, Sault Ste. Marie. Peterborough.

Louisa, stm., 13 tons, 55 ft., (1902), John Lee, Sr., Wallaceburg. Lovering, H. L., stm., 55 tons, 62 ft., (1883), Georgian Bay Lumber Co., Ltd., Wau-

Lucille, stm., 30 tons, 62 ft., (1889), C. Beck Mfg. Co., Ltd., Penetanguishene. baushene, Ont.

Lucina, stm., 32 tons, 47 ft., (1905), J. Ford Jr., Portneuf, Que.
Luella, stm., 38 tons, 66 ft., (1880), The Toronto Ferry Co., Ltd., Toronto.
Luff., Sophia J., sail, 252 tons, 140 ft., (1886),

W. J. Hackett, Quebec, Que. Lydon, Mary Ann, sail, 180 tons, 112 ft., (1874), Matthew Patterson, Kingston,

Ont.

Lyle, stm., 5 tons, 30 ft., (1904), D. J. Tymes & H. M. Smith, Corunna, Ont. Lyon C., stm., 19 tons, 55 ft., (1900), Mrs. Elizabeth Brule, Sorel.

McAulay, Frank G., stm., 43 tons, 67 ft., (1898), D. McAulay. Southampton.

McAulay, Laird, stm., 88 tons, 74 ft., (1907), Donald McAulay, Southampton, Ont. McBride, John, sail, 42 tons, 58 ft., (1877), Ed. Quinn, Belleville.

McCarthy, D'Alton, stm., 54 tons, 66 ft., (1893), W. G. Goodchild, Tp. of Walden, Ont.

McCarthy, Leighton, stm., 36 tons, 63 ft., (1904), W. A. Clarke, Collingwood.

McClintock, stm., 21 tons, 36 ft., (1894), R. C. Carter, Deseronto. McD. & C., No. 1, sail, 61 tons, 66 ft., (1897), John Carew, Lindsay.

McD. & C., No. 2, sail, 54 tons, 62 ft., (1897), John Carew, Lindsay.

McDonald, J. H., stm., 41 tons, 65 ft., (1902), J. P. McDonald, Blind River.

McDonald, John, 24 tons, 48 ft., (1879), Ottawa Trans. Co., Ltd., Ottawa.

McDonald, M. G., stm.: 29 tons, 58 ft., (1895), J. P. McDonald, Blind River.

McDonald, Mabel, stm., 42 tons, 64 ft., (1891), Alex. Manning and R. McDonald, To-

ronto.

McDonald, Robert, stm., 97 tons, 93 ft., (1890-1907), Jas. H. Bell, Kingston.
McIntosh, G. P., stm., 58 tons. 78 ft., (1888), Dominion Fish Co., Ltd., Winnipeg, Man. McKeon, James. stm., 36 tons, 52 ft., (1893), Blind River Towing Co., Ltd., Sarnia.
McLean Bros., stm., 2 tons, 22 ft., (1900), Frank H. McLean, Stratford.
McLean, Stratford.
McJean, Maggie, stm., 37 tons. 69 ft., (1886), French River Boom Co., Essex.
McJean, R. A., stm., 30 tons, 49 ft., (1873), Mrs. Margaret McLean, Sault Ste. Marie.
McMahon, Agnes, stm., 81 tons, 96 ft., (1879), I. Clement, Montreal, Que.
McMangh, Heward, stm., 42 tons, 47 ft., (1898), M. P. Davis, Ottawa.

McPherson, R. B., stm., 30 tons, 53 ft., (1872), James Morrow, Collingwood. McRae, Wm. F., stm., 46 tons, 65 ft., (1880), J.

McVea, E. J. sail, 278 tons, 140 ft., (1873), W. W. Stover, Sombra. Mayhew, Moore.

M. & W., stm., 8 tons, 40 ft., (1902), David A. Mitchell, Ganonoque.

Mabel, stm., 11 tons, 39 ft., (1886), R. Miller and J. Miller, Ingersoll.
Mabel, sail, 59 tons, 87 ft., (1883), Wm. Jones,

Belleville.

Mabel C., stm., 4 tons, 25 ft., (1893), Minister of Interior, Ottawa.

Mabel D., stm., 38 tons, 64 ft., (1907), F. W. Doty, Goderich, Ont.

Mabel G., sail, 82 tons, 50 ft., (1899), W. M. Thompson, Penetanguishene.

Mabel G., stm., 10 tons, 36 ft., (1898), Wm. McM. Thompson, Penetanguishene.
Mabel M., stm., 7 tons, 39 ft., (1901), Andrew Campbell, Port Elgin.

Mac, Jennie, stm., 5 tons, 33 ft., (1899), C. B. McAllister, Peterborough.

\*Macassa, stm., 529 tons, 178 ft., (1888 and 1905), Hamilton Stbt. Co., Ltd., Hamilton.

Macdonald, Mabel, stm., 42 tons, 64 ft., (1891), Alexander Manning and R. Macdonald,

Toronto.

Macfarlane, Lilly, sail, 14 tons, 44 ft., (1872), Lionel Yorke, Toronto, Ont.

Madcap, sail, 20 tons, 52 ft., (1888), Jos. Dewsberry, Belleville.

Madeline, sail, 39 tons, 69 ft., (1882), Geo. Parker, Dumbarton.

Madge, sail, 335 tons, 130 ft., (1897), Canada Sugar Refining Co., Ltd., Montreal,

Madge, stm., 7 tons, 40 ft., (1902), B. R. Hepburn, Picton.

Madge, stm., 9 tons, 36 ft., (1898), P. C. Jones, Belleville.

Oue.

Maggie, stm., 37 tons, 62 ft., (1873), Edward Armstrong, Port Colborne. Maggie L., sail, 42 tons, 67 ft., (1889), Richard La Rush, Kingston.

Maggie May, stm., 29 tons, 51 ft., (1891), Thos. Weir, Chatham.
Maggie May, stm., 46 tons. 58 ft., (1889), W. Gartshore, Parry Sound.
Magnolia, stm., 367 tons, 136 ft., (1898), The Midland Towing & Wrecking Co., Ltd.,

man, Sheguindah. Maid of the Mist, stm., 62 tons, 71 ft., (1885), Richard Carter, Niagara Falls. Midland, Ont. Maida, stm., 3 tons, 29 ft., (1888), T. J. Bate-

Main, Florence, stm., 79 tons, 82 ft., (1901), C. O. Shaw, Huntsville.

Maisonneuve, stm., 26 tons, 75 ft., (1894), Minister of Marine & Fisheries, Ottawa.

Maitland, Thos., stm., 107 tons, 89 ft., (1899), J. Maitland, Owen Sound. Maize, sail, 294 tons, 136 ft., (1856), Wm. G. Mathews, Lakeport.

Majestic, stm., 1578 tons, 209 ft., (1895), Northern Nav. Co. of Ont., Ltd., Collingwood.
Majestic, stm., 68 tons, 76 ft., (1897), P. P.
Young, Young's Point.
Malinche, stm., 7 tons, 37 ft., (1904), Capt.
W. J. Murphy, Morrisburg.

Malta, sail, 198 tons, 137 ft., (1868), Mrs. Mary M. Blodgett, Windsor.

Mamie, sail, 370 tons, 129 ft., (1897), Mon-treal Transportation Co., Ltd., Quebec, Que.

tManitoba, stm., 2616 tons, 303 ft., (1889), Canadian Pacific Ry. Co., Montreal, Que. Manitoba, sail, 75 tons, 103 ft., (1882), Benjamin Tett, Bedford Mills.
Manitou, stm., 470 tons, 137 ft., (1903), Dominion Fish Co., Winnipeg, Man.
Manly, Geo., sail, 284 tons, 142 ft., (1871), W. A. Clark, Jr., et al., Collingwood.
Manoa, sail, 34 tons, 60 ft., (1906), Mrs. H.

B. Ames, Montreal, Que.
Manolia, stm., 6 tons, 30 ft., (1898), Fred Mills,
Tp. of Monck.
Maple Leaf, stm., 5 tons, 30 ft., (1902), John
Maple Leaf, stm., 12 tons, 37 ft., (1892), S.
Brown, Bracebridge, Ont.

Maple Leaf, stm., 7 tons, 38 ft., (1891), Gardner Boyd, Toronto.
Maple Leaf, stm., 32 tons, 53 ft., (1898), Huntsville Lake of Bays & Lake Simcoe Nav. Co., Ltd., Huntsville, Ont.

Maple Leaf, stm., 26 tons, 59 ft., (1884), Kennedy & Davis Milling Co., Ltd., Lindsay.

Maple Leaf, sail, 28 tons, 47 ft., (1871-1890),
Wm. Berry, Pt. Stanley.

Maple Leaf, sail, 59 tons, 70 ft., (1886), Richard Goldring, Toronto.

Marchment, S. W., stm., 89 tons, 97 ft., (——), E. Bedford & T. Hough, East Toronto,

Marguerite, stm., 6 tons, 28 ft., (1902), M. H. & Robt. Smith, Fort Frances, Ont. Marguerite, stm., 8 tons, 35 ft., (1879), John Anderson, Windsor.
Maria, stm., 31 tons, 49 ft., (1901), W. J. Poupore, Montreal, Que.
Maria Annette, sail, 196 tons, 125 ft., (1867), R. Henning, Port Hope. Marie, stm., 3 tons, 34 ft., (1895), The Rainy River Lumber Co., Ltd., Rainy River, Ont. Margherita, stm., 31 tons, 57 ft., (1699), James Playfair, Midland.

Marie Louise, stm., 32 tons, 51 ft., (1900), Jos. Briggs Parkin, Lindsay.
Marie Stella, sail, 143 tons, 107 ft., (1893), J. Donnelly, Jr., Kingston.

Marks, Kate, stm., 54 tons, 52 ft., (1875), Thos. Marks, Port Arthur. Marmora, etm., 13 tons, 35 ft., (1896), Geo. B. Blocker, Marmora.

Marshall, Charlie, sail, 206 tons, 122 ft., (1881), Geo. Plunkett and D. Rooney, Jr., Cobourg.

Martha, stm., 2 tons, 28 ft., (1902), Mrs. Martha Wessels, Kingston.
Martin, C. C., stm., 70 tons, 71 ft., (1906), Mrs. Mary Martin, Midland, Ont.
Martin, Minnie, stm., 10 tons, 80 ft., (1882), Chas. Martin, Port Severn.

Marwick, David, stm., 30 tons, 60 ft., (1905),

W. Leslie, Tobermory, Ont. Marwood, M., stm., 4 tons, 31 ft., (1902), Wm. Menzies, Amherstburg, Ont.

Mary Ann, sail, 57 tons, 78 ft., (1867), Pigeon River Lumber Co., Port Arthur.

Mary Ellen, paddle stmr., 81 tons, 55 ft., (1868), Wm. Needler, Lindsay.

Mary Ellen, stm., 20 tons, 57 ft., (1896), J. Jessamer and M. Jessamer, Cornwall,

Mary Ethel, paddle stmr., 99 tons, 93 ft., (1879), Trenton & Bay of Quinte Nav. Co., Ltd., Trenton.

Mary L., stm., 10 tons, 40 ft., (1907), Peter Light, Panetanguishene, Ont.

Mary Louise, stm., 64 tons, 68 ft., (1884), Huntsville, Lake of Bays & Lake Simcoe Nav. Co., Huntsville.

Mary Louise, sail, 46 tons, 77 ft., (1902), John Brooker, Athens, Ont.

Mary R., stm., 44 tons, 47 ft., (1897), David McLeod, Port Colborne.

Mascott, stm., 21 tons, 52 ft., (1890), James Pilgrim, Meaford.

Mascotte, stm., 49 tons, 70 ft., (1886), The Toronto Ferry Co., Ltd., Toronto.

Mason, Maggie, stm., 56 tons, 53 ft., (1882), O. Matthews and A. Matthews, St. Cath-

Masonic, stm., 39 tons, 58 ft., (1893), Wm. C. Gidley, Hamilton.

†Matthews, W. D., stm., 3965 tons, 366 ft., (1903), St. Lawrence & Chicago Steam

Nav. Co., Ltd., Toronto, Ont. Mattie, stm., 2 tons, 22 ft., (1903), C. M. Hincks, Toronto, Ont.

Maud C., stm., 5 tons, 30 ft., (1897), Thos. Craigie, Rossport.

Maud D., stm., 81 tons, 71 ft., (1904), A. A. Osborne & J. L. Ferrier, Midland, Ont. Maud, S., stm., 14 tons, 44 ft., (1889), H. N.

Trucedell, Collingwood, Ont.
Maud S., sail, 25 tons, 52 ft., (1884), John
McLennan, Toronto, Ont.
Maude, stm., 19 tons, 60 ft., (1902), J. Coop-

er, Chatham.

Maxie, stm., 16 tons, 44 ft., (1898), Clare Thorn, et al., Port Stanley, Ont. Maxwell, Emily E., sail, 327 tons, 148 ft., (1881), J. H. Peacock, Port Hope, Ont.

May, Allena, stm., 16 tons, 47 ft., (1897), H. Walker and Chas. J. Smith, Walkers Point, Ont.

May B., stm., 10 tons, 49 ft., (1900-1901), C. C. Bates, Clear Creek.

May C., stm., 4 tons, 29 ft., (1907), Erastus F. Cooke, Gananoque, Ont.

May Bird, stm., 46 tons, 76 ft., (1893), G. Hastings and S. W. Marchmont, Toronto. May Flower, stm., 26 tons, 49 ft., (1890), F. Morrua, Waubaushene.

May Flower, stm., 6 tons, 25 ft., (1897), Elizabeth Donnell, Peterborough.

May, Minnie, paddle stmr., 10 tons, 42 ft., (1894), John R. Phillips, Coboconk. May, Rosey, stm., 4 tons, 28 ft., (1898), John Bowman, Rossport, Ont.

tMayflower, paddle stmr., 189 tons, 140 ft., (1890), Toronto Ferry Co., Ltd., Toronto.

## CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Meteor	(1870)	53 ft.	0 tons	stm. 4	9	Maytham. Geo., stm., 40 tons, 53 ft., (1870).
Mob			Arthur.	Port 7	Natall,	Eli J.
Messen	Ĵ	40 ft.,	7 tons,	stm., 1	James,	Mayhew,

Mayriam, Geo., Stm., 40 tons, 53 ft., (1870), D. B. McCrae, Meldrum Bay.

Mazeppa, stm., 146 tons, 101 ft., (1884), Lawrence Solman, Toronto.

M. B. & Co., No. 1, sail, 87 tons, 86 ft., (1892), Mossom M. Boyd, Bobcaygeon.

M. B. & Co., No. 2, sail, 99 tons, 88 ft., (1892), Mossom M. Boyd, Bobcaygeon.

M. B. & Co., No. 3, sail, 100 tons, 80 ft., (1892), Mossom M. Boyd, Bobcaygeon.

M. B. & Co., No. 4, sail, 76 tons, 70 ft., (1890), Mossom M. Boyd, Bobcaygeon.

Medora, stm., 377 tons, 142 ft., (1893), The Muskoka Lakes Nav. & Hotel Co., Ltd.,

Toronto.

Melrose, sail, 768 tons, 183 ft., (1895), Montreal Transportation Co., Montreal Menodora, stm., 73 tons, 67 ft., (1901), Midland Towing & Wrecking Co., Ltd., Mid-

Merle, sail, 11 tons, 39 ft., (1887), Alex McL. land.

Macdonald, Toronto.
Mermaid, sail, 19 tons, 58 ft., (1889), Robert
Mosher, Fort Frances.
Mermaid, sail, 9 tons, 36 ft., (1885), Robt.

Sutor, Cayuga.

Mermaid, stm., 11 tons, 32 ft., (1901), Dr.

Henry A. Turner, Millbrook.

Merritt, C. H., stm., 122 tons, 85 ft., (1883),

A. M. Clark, Marysburgh. Merry-thought, sail, 39 tons, 56 ft., (1895), E. G. Staunton, Toronto.

Ress, Port Robinson. iger, sail, 94 tons, 84 ft., (1881), Geo. berley, Collingwood.

Metzner, Lizzie, sail, 91 tons, 82 ft., (1888), W. E. Lobb, Port Milford, Ont. tMichigan, stm., 1730 tons, 297 ft., (1891), Can. Pac. R. R. Co., Montreal, Que. Midland, formerly D. L. White, stm., 56 tons, 62 ft., (1896), The Canada Iron Furnace. Co., Ltd., Midland, Ont. Midland, stm., 1875 tons, 248 ft., (1903), Montreal Trans. Co., Montreal, Que. Midland King, stm., 3965 tons, 366 ft., (1903),

#Midland Prince, stm., 6636 tons, 474 ft., Midland Nav. Co., Ltd., Mid-Midland Nav. Co., Midland. 1907), M. - 4 Ont.

Midland Queen, stm., 1993 tons, 249 ft., (1901), Midland Nav. Co., Midland. Mildred, stm., 5 tons, 34 ft., (1895), J. A. Wheeler, Belleville. #Midland

Mildred, stm., 39 tons, 70 ft., (1903), E. R.

Wood, Toronto.
Mills, stm., 11 tons, 38 ft., (1903), Manitoulin Fish Co., Ltd., Manitowaning.
Mills, J. E., str., 149 tons, 108 ft., (1883), Charles E. Millard, Sarnia.
Minch, Sophia, sail, 538 tons, 180 ft., (1873), W. G. Colwell, Sarnia, Ont.
Minden, stm., 4 tons, 30 ft., (1880), James Lunan, Minden.

Minerva, stm., 4 tons, 33 ft., (1891), James Irwin, Hamilton.

Minitaga, stm., 73 tons. 77 ft., (1898), Robt. Weddell, Trenton, Ont.
Mink, stm., 56 tons, 72 ft., (1891), Muskoka Lakes Nav. & Hotel Co., Ltd., Toronto. Mink, sail, 19 tons, 52 ft., (1880), Muskoka & Nipissing Nav. Co., Gravenhurst.
Minnehaha, sail, 133 tons, 42 ft., (1898), David Davidson. Penetanguishene.
Minnehaha, stm., 2 tons, 27 ft., (1888), Sidney Smith, Port Arthur.
Minnehaha, stm., 32 tons, 60 ft., (1882), John Minnehaha, stm., 32 tons, 60 ft., (1882), John

C. Miller, Parry Sound.
Minnes, Annie, sail, 155 tons, 101 ft., (1867-1881), W. H. Braund, Port Hope.
Minnette, stm., 4 tons, 36 ft., (1899), A. F. Bailey, Fox Point, Ont.

Minnicog, stm., 35 tons. 56 ft., (1902), J. C.

Cautley, Penetanguishene.
Minnie, sail, 8 tons, 38 ft., (1880), Jos. Adamson, Toronto.
Minnie, sail, 63 tons, 92 ft., (1881), James Playfair, Midland.
Minnie, sail, 109 tons, 95 ft., (1873), John Eligh and Peter Eligh, Beckett's Landing.
Minnie, sail, 17 tons, 40 ft., (1878), R. J.

Wilson, Gananoque. Minnie C., stm., 7 tons, 34 ft., (1904), James Crawford, Moon River P. O., Parry

Sound.

Minnie D., stm., 3 tons, 24 ft., (1889), J. Larson, Parry Sound.
Minnie M., 613 tons, 140 ft... (1884), Algoma Central Railway Co., Sault Ste. Marie,

Minota, str., 29 tons, 65 ft., (1891), W. B. Nesbitt, Toronto, Ont.
Minota, str., 35 tons, 63 ft., (1890), J. Bowman, Rossport.
Mischief, stm., 9 tons, 31 ft., (1886), H. E. C. Carey, Bruce Mines.
Mitchell, Maggie R., stm., 40 tons, 50 ft., (1873), M. J. Haney, et al., Toronto, Ont. Mizer, H. M., stm., 30 tons, 53 ft., (1865), J. Wade, Grenville, Que.
Mizpah, stm., 2 tons, 25 ft., (1889), A. H. Cottingham, Lindsay, 25 ft., (1889), Thos. Mizpah, stm., 18 tons, 51 ft., (1889), Thos. McCarrol and H. Manley, Toronto.
Mocking Bird, stm., 38 tons, 72 ft., (1886), P. McArthur, Westbourne, Man.

\*Modjeska, stm., 678 tons, 178 ft., (1889), Hamilton Stbt. Co., Ltd., Hamilton. Moiles, Annie, stm., 71 tons, 81 ft., (1865), Boutelle Towing & Wrecking Co., Ltd.,

Mollie, stm., 11 tons, 41 ft., (1897), J. J. Mc-Sarnia.

Bain, Peterborough.

Mollie S., stm., 45 tons, 68 ft., (1901), Goderich Engine & Bicycle Co., Goderich.

Mona, stm., 25 tons, 54 ft., (1889), Thos.

Gauthier, Montreal, Que.

Mona, stm., 2 tons, 23 ft., (1894), J. Bradley,

Monarch, stm., 73 tons, 84 ft., (1906), W. C. Harris & D. McAllister, Gores Landing, Hamilton.

Ont. Monitor, stm., 62 tons, 69 ft., (1899), Minister of Public Works, Ottawa.

## CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES-Continued.

Messenger, sail, 94 tons, 84 ft., (1881), Geo. Moberley. Collingwood.	Meteor, stm., 47 tons, 52 ft., (1902), Geo.	Metzner, Lizzie, sail, of tons, 82 ft., (1888),	W. E. Lobb, Fort Millord, Ont. 1891), tMichigan, stm., 1730 tons, 297 ft., (1891),	Can. Pac. R. R. Co., Montreal, Que. Midland, formerly D. L. White, stm., 56	tons, 62 ft., (1896), The Canada Iron Furnace, Co. 1.4d Midland Ont	Midland, stm., 1875 tons, 248 ft., (1903), Mon-	Midland King, stm., 3965 tons, 366 ft., (1903),	Midland Nav. Co., Midland.   #Midland Prince, stm., 6636 tons, 474 ft.,	(1907), Midland Nav. Co., Ltd., Mid-	#Midland Queen, stm., 1993 tons, 249 ft.,	(1901), Midland Nav. Co., Midland. Mildred stm. 5 tons. 34 ft. (1895), I. A.	Wheeler, Belleville.	Mildred, stm., 39 tons, 70 ft., (1903), E. R.	Mills, stm., 11 tons, 38 ft., (1903), Manitoulin	Fish Co., Ltd., Manitowaning. Mills, J. E., str., 149 tons, 108 ft., (1883),	Charles E. Millard, Sarnia. Minch. Sophia. sail. 538 tons. 180 ft (1873).	W. G. Colwell, Sarnia, Ont.	Lunan, Minden.	Minerva, stm., 4 tons, 33 ft., (1891), James Irwin, Hamilton.
Mayhew, James, stm., 17 tons, 40 ft., (), Eli I. Notall. Port Arthur	Maytham, Geo., stm., 40 tons, 53 ft., (1870),	D. B. McCrae, Meldrum Bay. Mazeppa, stm., 146 tons, 101 ft., (1884), Law-	rence Solman, Toronto.  M. B. & Co., No. 1, sail, 87 tons, 86 ft.,	(1892), Mossom M. Boyd, Bobcaygeon. M. B. & Co., No. 2, sail, 99 tons. 88 ft.	(1890), Mossom M. Boyd, Bobcaygeon.	(1892), Mossom M. Boyd, Bobcaygeon.	M. B. & Co., No. 4, sail, /o tons, /u ft., (1890), Mossom M. Boyd, Bobcaygeon.	Medora, stm., 377 tons, 142 ft., (1893), The Muskoka Lakes Nav. & Hotel Co., Ltd	Toronto.  Melrose esil 768 tons 183 & (1805) Mon	treal Transportation Co., Montreal.	Menodora, stm., 73 tons, 67 ft., (1901), Mid- land Towing & Wrecking Co. 11d. Mid-	land.	Merle, sail, 11 tons, 39 ft., (1887), Alex McL.	Mermaid, sail, 19 tons, 58 ft., (1889), Robert	. Mosher, Fort Frances. Mermaid, sail, 9 tons, 36 ft., (1885), Robt.	Sutor, Cayuga.  Mermaid. stm., 11 tons. 32 ft., (1901). Dr.	Henry A. Turner, Millbrook,	A. M. Clark, Marysburgh.	Merry-thought, sail, 39 tons, 56 ft., (1895), E. G. Staunton, Toronto.

Minitaga, stm., 73 tons, 77 ft., (1898), Robt.
Weddell, Trenton, Ont.
Mink, stm., 56 tons, 72 ft., (1891), Muskoka
Lakes Nav. & Hotel Co., Ltd., Toronto.
Mink, sail, 19 tons, 52 ft., (1880), Muskoka
& Nipissing Nav. Co., Gravenhurst.
Minnehaha, sail, 133 tons, 42 ft., (1888),
David Davidson. Penetanguishene.
Minnehaha, stm., 2 tons, 27 ft., (1888), Sidney Smith, Port Arthur.
Minnehaha, stm., 32 tons, 60 ft., (1882), John
C. Miller, Parry Sound.
Minnes, Annie, sail, 155 tons, 101 ft., (18671881), W. H. Braund, Port Hope.
Minnette, stm., 4 tons, 36 ft., (1899), A. F.
Bailey, Fox Point, Ont.

Cautley, Penetanguishene.
Minnie, sail, 8 tons, 38 ft., (1880), Jos. Adamson, Toronto.
Minnie, sail, 63 tons, 92 ft., (1881), James Playfair, Midland.
Minnie, sail, 109 tons, 95 ft., (1873), John Eligh and Peter Eligh, Beckett's Landing.
Minnie, sail, 17 tons, 40 ft., (1878), R. J.

Wilson, Gananoque. Minnie C., stm., 7 tons. 34 ft., (1904), James Crawford, Moon River P. O., Parry

Sound.

Minnie D., stm., 3 tons, 24 ft., (1889), J. Larson, Parry Sound.
Minnie M., 613 tons, 140 ft... (1884), Algoma Central Railway Co., Szult Ste. Marie,

Carey, Bruce Mines.
Mitchell, Maggie R., stm., 40 tons, 50 ft., (1873), M. J. Haney, et al., Toronto, Ont. Mixer, H. M., stm., 30 tons, 53 ft., (1865), J. Wade, Grenville, Que.
Mizpah, stm., 2 tons, 25 ft., (1888), A. H. Minota, str., 29 tons, 65 ft., (1891), W. B.
 Nesbitt, Toronto, Ont.
 Minota, str., 35 tons, 63 ft., (1890), J. Bow-Mischief, stm., 9 tons, 31 ft., (1886), H. E. C. man, Rossport.

Cottingham, Lindsay.

Mizpah, Stm., 18 tons, 51 ft., (1889), Thos. McCarrol and H. Manley, Toronto. Mocking Bird, stm., 38 tons, 72 ft., (1886), P. McArthur, Westbourne, Man. #Modjeska, stm., 678 tons, 178 ft., (1889), Hamilton Stbt. Co., Ltd., Hamilton. Moiles, Annie, stm., 71 tons, 81 ft., (1865), Boutelle Towing & Wrecking Co., Ltd.,

Mollie, stm., 11 tons, 41 ft., (1897), J. J. Mc-Sarnia.

Bain, Peterborough.

Mollie S., stm., 45 tons, 68 ft., (1901), Goderich Engine & Bicycle Co., Goderich.

Mona, stm., 25 tons, 54 ft., (1889), Thos.
Gauthier, Montreal. Que.

Mona, stm., 2 tons, 23 ft., (1894), J. Bradley,

Monarch, stm., 73 tons, 84 ft., (1906), W. C. Harris & D. McAllister, Gores Landing, Hamilton.

Ont. Monitor, stm., 62 tons, 69 ft., (1899), Minister of Public Works, Ottawa.

Montmorency, stm., 18 tons, 35 ft., (1889), W. J. Poupore, Montreal, Que. Moravia, sail, 53 tons, 81 ft., (1882), S. H. Pippin, Belleville.
stm., 18 tons, 35 ft., ore, Montreal, Que. 33 tons, 81 ft., (1882) eville.
stm., 18 tons, ore, Montreal, 53 tons, 81 ft., eville.
stm., 18 ore, Moo 53 tons, eville.
Montmorency, W. J. Poupo Moravia, sail, Pippin, Bell

Morden, Dolly, sail, 198 tons, 120 ft., (1881), G. H. Morden, Oakville.
Morinus, stm., 10 tons, 47 ft., (1904), Wm. Robinson, Kingston.

Morning Light, sail, 14 tons, 45 ft., (1876), H. I. Stricker, Shrewsbury.
Morning Star, stm., 872 tons, 95 ft., (1907), Clifford Sifton, Ottawa, Ont.

Morning Star, stm., 5 tons, 34 ft., (1894), Jos. Goodwin, Toronto.

Morrison, George D., stm., 23 tons, 57 ft., (1905), William Morrison, Kincardine, Morrell, R. J., stm., 40 tons, 68 ft., (1901), James Pilgrim, Meaford.

Morrison, J. D., stm., 116 tons, 78 ft., (1907), Canadian Towing & Wrecking Co., Ltd., Port Arthur, Ont.
Mowat, Oliver, sail, 170 tons, 116 ft., (1873),

John McClennan, Bowmanville.

Mowhawk, sail, 341 tons, 154 ft., (1872), A. Rondeau, Lanoraie, Que. Muir, A., sail, 530 tons, 138 ft., (1874), Wm. Muir, Port Dalhousie.

Murray Bay, formerly Carolina, paddle stmr., 969 tons, 251 ft., (1877), Richelieu & Ont. Nav. Co., Montreal.

Murray, Kate, stm., 3 tons, 36 ft, (1878), Mrs. Mary J. Vanderburgh, Port Carling.

Gilmour & Co., Trenton.
Muskoka, sail, 481 tons, 149 ft., (1872-1896),
Montreal Trans. Co., Ltd., Montreal, Que.
Muskoka, stm., 197 tons, 94 ft., (1881), The
Muskoka Lake Nav. & Hotel Co., Ltd., a, paddle stmr., 22 tons, 36 ft., (----), Toronto.

Myra, stm., 73 tons, 82 ft., (1884), James Buckey, Prescott.

Myron, B., stm., 16 tons, 48 ft., (1885), Walter H. Hawkins, et al., Little Current.

Myrtle, stm., 9 tons, 39 ft., (1880), David

Myrtle, stm., 5 tons, 33 ft., (1901), Herbert Watt, Peterborough.

Myrtle, stm., 9 tons, 40 ft., (1904), J. W. Hamm, Tp. of Bertie, Ont. Mystery, stm., 53 tons, 60 ft., (1906), Clark Sencabald, Lion's Head, Ont.

Nadine, sail, 484 tons, 166 ft., (1898), Montreal Trans. Co., Ltd., Montreal, Que.
Naiad, stm., 29 tons, 68 ft., (1890), H. S.
Sanford, Hamilton.
Naiad, stm., 15 tons, 51 ft., (1888), Chas.
R. Webster, Kingston, Ont.
Naiad, sail, 276 tons, 140 ft., (1863), J. E.
Williscroft, Southampton.
Naniwa, stm., 12 tons, 54 ft., (1903), F. J.
Phillips, Toronto.

National, stm., 18 tons, 39 ft., (1903), Corporation of the City of Toronto.

Navajo, stm., 145 tons, 108 ft., (1895), G. A. & H. W. Richardson, Kingston.

Neebing, stm., Canadian North-West S. S. Co., 707 Board of Trade Bldg., Toronto. Neelon, Harvey, stm., 65 tons, 74 ft., (1876), W. M. Carter, Tesserton, Ont.

†Neepawah, stm., 1190 tons, 244 ft., (1903), New Ontario Steamship Co., Ltd., Hamilton, Ont.

Nellie, stm., 7 tons, 39 ft., (1882), J. N. Leeman, Smith's Falls.

Nellie, stm., 2 tons, 25 ft., (1886), R. Campbell, Bracebridge.

Nellie S., stm., 3 tons, 20 ft., (1885), Geo. Sutherland, Essex Centre, Ont.

Nellie T., stm., 5 tons, 36 ft., (1894), Michael Dovey, Lindsay.

New Dominion, sail, 196 tons, 117 ft., (1868), Geo. H. Morden, Oakville.

New Ontario, sail, 17 tons, 50 ft., (1898), James Whelan, Port Arthur.

‡Niagara, stm., 396 tons, 159 ft., (1856-1901), The Ontario & Quebec Nav. Co., Ltd., NewsBoy, sail, 40 tons, 67 ft., (1885), Lemuel Dorland, Bronte.

Nile, stm., 28 tons, 71 ft., (1894), Minister of Public Works, Ottawa. Picton, Ont.

Nile, stm., 96 tons, 90 ft., (1870), The Rathbun Co., Deseronto.

Nilka, stm., 1 ton, 24 ft., (1897), John Jamieson, et al., Ottawa.

Nina, stm., 11 tons, 32 ft., (1889), J. Cooper,

Nippissing, stm., 275 tons, 125 ft., (1887), Muskoka Lakes Nav. & Hotel Co., Ltd., Toronto.

Niska, stm., 9 tons, 36 ft., (1897), Robt. J. Stroud, Milford Bay. No. 1, sail, 57 tons, 64 ft., (1895), John
 O'Leary, Ottawa, Ont.
 No. 5, sail, 7 tons, 34 ft., (1898), Hugh Flem-

No. 24, sail, 110 tons, 94 ft., (1862), Sincennes McMaughton Line, Ltd., Moning, Cornwall.

treal, Que.

ਜ਼ ਜ਼ No. 31, sail, 17 tons, 40 ft., (1898), Laverdue, Ottawa.

Nobby, stm., 2 tons, 25 ft., (1883), Thos. Robson, Fenelon Falls.

Norcross, stm., 20 tons, 45 ft., (1887), The French River Boom Co., Toronto. Nogey, sail, 68 tons, 69 ft., (1898), Robt. Kennedy, Lindsay.

Nokomis, stm., 25 tons, 55 ft., (1887), W. C. Edwards, Rockland.

Nomad, stm., 19 tons, 48 ft., (1906), G. W. & W. M. Birks, Montreal, Que. 20 tons, 44 ft., (1895), D. L. Nora, stm., 20 tons, 44 Mather, Kenora, Ont.

Nora, stm., 28 tons, 50 ft., (1886), The Minister of Public Works, Ottawa, Ont.

Norah, sail, 30 tons, 52 ft., (1880), R. C. Smith, Port Hope. Nore, sail, 95 tons, 91 ft., (1866), F. La-Riviere, Plantagent.

62 ft.; (1907), F. Norfolk, stm., 32 tons, 62 ft.; (1907), F. W. Doty, Goderich, Ont.
Norris, James, stm., 50 tons, 74 ft., (1868), James T. Davis, Montreal, Que.
Norseman, stm., 620 tons, 177 ft., (1864), N.

Dyment and A. E. Dyment, Barrie.
North King, paddle stm., 873 tons, 175 ft., (1868-1891), Lake Ont. & Bay of Quinte Stht. Co., Ltd., Kingston.
North West, sail, 57 tons, 75 ft., (1882), Edmorth West, sail, 57 tons, 75 ft., (1873), Edmorth And Francis Goldring, Whitby.
Norway, sail, 332 tons, 135 ft., (1873-1881), Kaine & Bird Trans. Co., Ltd., Quebec,

Norway Belle, stm., 46 tons, 66 ft., (1905), A. McFarlane, Bristol, Que.

Notten, G. H., stm., 14 tons, 42 ft., (1881), Geo. Dansereau, Grenville, Que.
Nymoca, stm., 51 tons, 72 ft., (1896 and 1906), G. F. Beaumont, Muskoka.
Nymph, stm., 84 tons, 72 ft., (1902 and 1907), Robt. J. Stroud, Milford Bay.

O'Brien Julian V., stm., 59 tons, 70 ft., (1888 —rebuilt 1892), Wm. E. Bigwood, Toron-

to, Ont.
Ocean Lily, stm., 3 tons, 29 ft., (1887), Edward Brooks, Red Bay.
Odessa, stm., 12 tons, 32 ft., (1894), A. L. Nickerson, Midland.
Ogemah, paddle stmr., 72 tons, 85 ft., (1889), Trent Valley Nav. Co., Ltd., Bobcaygeon. Ojibawaya, stm., 1 ton, 16 ft., (1902), Mrs. F. A. Price, Missanaga.

Ojibway, stm., 194 tons, 130 ft., (1892), B. V. Naylor, Noyan, Que.
Oldfield, W. S. stm., 15 tons, 42 ft., (1898),
W. H. Oldfield, Parry Sound.
Olga, stm., 5 tons, 33 ft., (1896), John McLaren, Brockville.

Olive, stm., 2 tons, 25 ft., (1895), G. W. Leach, et al., North Bay.
Olson, Ida A., sail, 191 tons, 122 ft., (1888), G. T. Dunn and T. W. Thomson, Owen Olympia, sail, 23 tons, 57 ft., (1879), Wm. R. Sound.

Crosby, Port Credit, Ont. Ombalika, stm., 76 tons, 70 ft., (1906), Revillion Bros., Ltd., Montreal, Que. Onaganoh, stm., 19 tons, 47 ft., (1887), H. Fraser, Port Cockburn, Ont. Onananiche, stm., 1 ton, 23 ft., (1896, E. A. Parsons, et al., Ottawa.

Onaping, stm., 256 tons, 120 ft., (1870), Jno. Charlton, Lynedoch.

Ongiara, stm., 98 tons, 90 ft., (1885), The Niagara Nav. Co., Ltd., Toronto, Ont. Ontario, sail, 150 tons, 105 ft., (1867), Francis Granville, Southampton, Ont. (Lost.) Onawa, stm., 2 tons, 29 ft., (1904), Wm. J. Reid, Gananoque.

Ontario, sail, 56 tons, 56 ft., (1868), J. Swift, Ontario, stm., 11 tons, 43 ft., (1881), R. Walker, Township of Wood. Kingston.

Ontario, stm., 41 tons, 63 ft., (1870), J. W. Steinhoff, Wallaceburg.

Ontario, paddle stmr., 80 tons, 58 ft., (1868), J. Thurston, Lindsay.

‡Ontario, stm., 1615 tons, 297 ft., (1890), Canadian Pacific Ry. Co., Montreal.

#Ontario No. 1, stm., 5146 tons, 317 ft., (1907), The Ontario Car Ferry Co., Ltd.,

Montreal, Que. Onward, stm., 22 tons, 57 ft., (1902), John McGaw, Kincardine.

Ophir, stm., 11 tons, 41 ft., (1902), Milton Pearce, Parry Sound.

Orca, stm., 4 tons, 34 ft., (1905), A. F. Mac-

Orcadia, stm., 26 tons, 52 ft., (1894), Jno. Bowman, Rossport. nee, Kingston, Ont.

Orcadia, stm., 23 tons, 54 ft., (1888), A. W. Tromblay, Fort William, Ont.

Oriana, stm., 68 tons, 79 ft., (1903), Robert E. Menzie, Toronto.

Oriole, stm., 75 tons, 75 ft., (1886), Muskoka Lakes Nav. & Hotel Co., Ltd., Toronto. Oriole, sail, 50 tons, 85 ft., (1886), Geo. Gooderham, Toronto.

Orion, stm., 572 tons, 173 ft., (1872), Achille Bernier, St. Joseph de Lois, Que. Oriska, stm., 6 tons, 38 ft., (1903), Wm. Mor-ris, Toronto.

Oscor, sail, 122 tons, 96 ft., (1888), Hiram Easton, Merrickville.

Osirus, sail, 106 tons, 109 ft., (1892), P. Larkin, St. Catharines, Ont., and A. Sangster, Iroquois, Ont.

Ospiracy, stm., 42 tons, 72 ft., (1902), James Purvis, Gore Bay.
Ossifrage, stm., 632 tons, 161 ft., (1886), Algoma Central Railway, Sault St., Marie. Osso, stm., 6 tons, 41 ft., (1902), John H. Wilmott, Beaumaris.
Oswego, sail, 130 tons, (1903), The Rathbun Co., Deseronto.
Otomabee, sail, 55 tons, 76 ft., (1904), Henry Osprey, stm., 6 tons, 32 ft., (1896), Dan Lang, Aldborough.

Otranto, stm., 35 tons, 75 ft., (1893), Alphonse Noel, Bonaventure River, Que. Ottawa, stm., 21 tons, 56 ft., (1888), Minister of Public Works, Ottawa.

‡Ottawa, stm., 2431 tons, 245 ft., (1900), J. R. Calcutt, Peterboro.

Booth, Ottawa, Ont.
Ottawa, stm., 617 tons, 151 ft., (1881), The Reid Towing Co., Ltd., Sarnia.
Ottawan, stm., 311 tons, 108 ft., (1904), Ottawa Forwarding Co., Ltd., Ottawa.
Outlet Queen, stm., 18 tons, 43 ft., (1888), Wm. Black, Belleville.

Owl (The), stm., 4 tons, 32 ft., (1887), L. J.
Courtice, Courtice.
Owlet, stm., 16 tons, 43 ft., (1907), Jas. B.
Paterson, Montreal, Que.
Ox, sail, 130 tons, 104 ft., (1873), Alex. Gunn,

Paloma, sail, 122 tons, 99 ft., (1885), Trent Valley Nav. Co., Ltd., Bobcaygeon. Pappoose, stm., 57 tons, 71 ft., (1893), Alfred H. Clark, Windsor.

Parthia, paddle stmr., 198 tons, 126 ft., (1896), The Calvin Co., Ltd., Garden Island. Paul, J. A., stm., 49 tons, 71 ft., (1906), J. A. Paul, Sorel, Que.

Paul, N. sail, 126 tons, 100 ft., (1890), Wm. J. Poupore, Morrisburg.

Pearl, stm., 6 tons, 35 ft., (1902), Robt. G. Aird, Parry Sound.

Pearl, stm., 6 tons, 35 ft., (1889), James

Pearl, stm, 8 tons, 30 ft., (1885), H. Calcutt, Lewis, Bobcaygeon.

Pease, Edward S., sail, 338 tons, 160 ft., (....), The Crawford Tug Co., Ltd., Wiarton, Ont. Peterborough.

Pellatt, H. M., stm., 1592 tons, 240 ft., Canadian Lake & Ocean Nav. Co., Toronto. Penetang, stm., 100 tons, 82 ft., (1901), First Brook Box Co., Ltd., Toronto.

83 tons, 90 ft., Penniman, George, sail, 83 tons, (----), James Purvis, Gore Bay.

Pennsylvania, stm., 428 tons, 158 ft., (1901), St. Lawrence Trans. Co., Ltd., Toronto,

Persia, stm., 757 tons, 144 ft., (1873), Toronto & Montreal Stbt. Co., Ltd., Toronto. Perew, Frank, 43 tons, 72 ft., (1867), Minister of Railways and Canals, Ottawa.

Petrel, stm., 346 tons, 129 ft., (1892), Collin's Bay Rafting & Forwarding Co., Kingston. Peruvian, sail, 54 tons, 97 ft., (1888), J. Shappie, Belleville.

Petrel, stm., 192 tons, 116 ft., (1892), Minister of Marine and Fisheries, Ottawa.

Petrie, A. M., stm., 20 tons, 50 ft., (1892), R. McKay & A. McDonald, Goderich,

(1906), Harry Pewabic, stm., 29 tons, 48 ft., (190 E. Knoble, Port Arthur, Ont.

Philadelphia, stm, 148 tons, 90 ft., (1896), Algoma Central & H. B. Ry., Sault Ste. Marie.

Phillips, Harold B., stm., 66 tons, 59 ft., (1880), The Great Lakes Towing Co., Ltd., Sarnia, Ont.

Phin & Co. Scow No. 1, sail, 81 tons, 77 ft., (1894), Wm. E. Phin, Toronto.

Phin & Co. Scow No. 2, sail, 90 tons, 77 ft., (1894), Wm. E. Phin, Toronto.

Phin & Co. Scow No. 9, sail, 115 tons, 80 ft., (1896), Wm. E. Phin, Toronto.

Phoebe, stm., 11 tons, 40 ft., (1904), John H. Wilmott, Beaumaris.

Phoenix, stm., 29 tons, 50 ft., (1900), Huntsville, Lake of Bays & Lake Simcoe Nav. Co., Ltd., Huntsville.

Pierreville, stm., 121 tons, 100 ft., (1906), A. A. Moudon, Pierreville, Que.

Pilgrim, stm., 262 tons, 122 ft., (1884), H. S. Folger, Kingston.

Prince Affred, stm., 20 tons, 60 ft., (1867), Mrs. S. E. Miler, Gore Bay.

Prince Edward Ferry, paddle stmr, 18 tons, 58 ft., (1885), Wm. Powles, Descronto.

Princess Louise, stm., 26 tons, 67 ft., (1879 and 1889). A. Smallman, Cornwall, Ont. Priscilla, stm., 20 tons, 53 ft., (1897), Priscilla Steam Yacht Co., Ltd., Toronto.

Proctor, E. R. C., sail, 163 tons, 109 ft., (1878), J. E. Proctor, Brighton.

Puffing Billy, stm., 3 tons, 31 ft., (1905), J. C. Cantley, Minnicoganashene, Ont. Puritan, stm., 6 tons, 41 ft., (1901), Priscilla Steam Yacht Co., Ltd., Toronto. Prescott, formerly Bohemian, paddle stmr., 1107 tons, 195 ft., (1873-1900), Richelieu & Ont. Nav. Co., Montreal.
Price, W. H. stm., 13 tons, 38 ft., (1903), Geo. Stalker, Collingwood. Quebec, stm., 108 tons, 110 ft., (1867), H. F. Cumming, Cornwall.

‡Quebec, sail, 989 tons, 206 ft., (1901), Montreal Trans. Co., Montreal. Primrose, paddle stmr., 189 tons, 140 ft., (1890), Toronto Ferry Co., Ltd., Toronto, Primrose, stm., 23 tons, 53 ft., (1899), M. Mc-Innes, Meaford, Ont. ‡Quebec, paddle stmr., 3454 tons, 311 ft., (1865 and 1907), Richelieu & Ont. Nav. Queen, str., 7 tons, 35 ft., (1883), Thos. Ellis, Roach's Point. Co., Montreal. Co., Ficton, Ont.
Portneuf, stm., 39 tons, 59 ft., (1906), A. J.
Lalonde, Kingston, Ont.
Portsmouth, sail, 126 tons, 108 ft., (1872-1822), S. T. Easton, Ottawa.
Poupore, W. J., stm., 47 tons, 70 ft., (1881), W. J. Poupore, Montreal, Que.
Premier, stm., 337 tons, 130 ft., (1888), The
Doty Engine Works, Ltd., Goderich, Pilot, sail, 34 tons, 63 ft., (1866), James Mahoney, Kingston. Port Elgin Queen, stm., 37 tons, 52 ft., [1865], A. F. Bowman, Southampton. Porter, Lloyd S., stm., 489 tons, 159 ft., (1803). The Ontario & Quebec Nav. Plunkett, Wilfred, sail, 100 tons, 78 ft., (1866), A. A. Smith, Belleville. Playfair, James, stm., 26 tons, 50 ft., (1894), A. Hoover, Dunnville, Ont. FPlummer, J. H., stm., 1582 tons, 246 ft., (1903), Canadian Lake & Ocean Nav. Co., To-Pontiac, sail, 33 tons, 54 ft., (1889), W. J. Poupore, Montreal, Que. Pontiac, stm., 15 tons, 40 ft., (1903), Peter Pilot, stm., 70 tons, 71 ft., (1901), Mrs. Carrie E. Pratt, Parry Sound. Pioneer, stm., 28 tons, 49 ft., (1879), H. C. Rothwell, Kingston. Pocahontas, paddle stmr., 32 tons, 36 ft., (1885), Muskoka Mill & Lumber Co., Toronto.

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# CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES-Continued

Queen of the Isles, 40 tons, 72 ft., (1885), Muskoka Leather Co., Ltd., Toronto.

Rainbow, stm., 51 tons, 71 ft., (1898), Francis Rambler, stm., 39 tons, 70 ft., (1903), Mrs. Isabelle McKinnon, Toronto. Burnett, Birdsall.

Rambier, str., 6 tons, 30 ft., (1891), Geo. A. McLaurin, Savanne.

Rambler, stm., 6 tons, 48 ft., (1898), Waterous Engine Co., Ltd., Brantford.

Ranger, stm., 14 tons, 46 ft., (1888), Deseronto Onto Nav. Co., Deseronto, Ont.

Ranger, stm., 8 tons, 44 ft., (1888), Wm. Parker, Sandwich.

Ranger, paddle stmr., 53 tons, 74 ft., (1884), Geo. Crandell, Lindsay.

Ranney Gertrude A., stm., 14 tons, 42 ft., (1883), Noble Bros., Ltd., Owen Sound. Raoul, sail, 100 tons, 94 ft., (1869), Wm. Mc-Caffrey, Ottawa.

Rapid, sail, 221 tons, 124 ft., (1874), Kingston & Montreal Forwarding Co., Kingston. Rapid City, sail, 37 tons, 70 ft., (1884), Chas. Goldring, Whitby.

‡Rapids King, stm., 1801 tons, 239 ft., (1907), Richelieu & Ontario Navigation Co., Montreal, Que.

Ray, Lulu M., stm., 33 tons, 56 ft., (1888), James Whelan, Port Arthur.

Recluse, stm., 3 tons, 18 ft., (1897), E. H.

Bissett, Brockville.

Recruit, sail, 297 tons, 144 ft., (1880-1901),M. J. Haney, Toronto, Ont.Red Bird, sail, 39 tons, 64 ft., (1870), H. Min-

nes, Welland.
Reed, Isabel, sail, 480 tons, 186 ft., (1881),
Ontario & Quebec Nav. Co., Ltd., Picton.
Reginald, stm., 186 tons, 120 ft., (1894), The
Victoria Lumber Co., Ltd., Toronto, Ont.
Reid, Ethyll, stm., 36 tons, 63 ft., (1904), W.
A. Clark, Collingwood.

Reid, James, stm., 181 tons, 117 ft., (1875), Reid Wrecking Co., Ltd., Sarnia. Reid, Nellie, stm., 56 tons, 70 ft., (1886), H. W. Richardson, Kingston.

Reina, stm., 4 tons, 30 ft., (1905), F. St. Louis, Hull, Que.

Reindeer, stm., 58 tons, 74 ft., (1884), James Collier, Fredericksburg.

Reindeer, sail, 14 tons, 44 ft., (1886), Benjamin B. Lynd, Parkdale.

Reliance, stm., 239 tons, 120 ft., (1881), Deseronto Nav. Co., Deseronto, Ont. ‡Reliance, stm., 311 tons, 124 ft., (1892), Midland Towing & Wrecking Co., Midland.

Relief, sail, 50 tons, 89 ft., (1875), James O'Leary and Geo. W. Downs, Port Lamb-

Rene, sail, 10 tons, 40 ft., (1895), E. G. Laverdure, Ottawa.

Rescue, stm., 52 tons, 62 ft., (1885), Deseronto Nav. Co., Deseronto, Ont.
Rescue, stm., 20 tons, 56 ft., (1878), Richard Power, Victoria Harbor.

Rescue, stm., 1 tons, 41 ft., (1886), Mrs. Mary C. McMurchy and A. C. McMurchy, To-

Reserve, stm., 49 tons, 61 ft., (1884), Minister of Marine and Fisheries, Ottawa.
Restless, sail, 73 tons, 73 ft., (1859), C. H.

Dodge, Belmont.

Retta, stm., 2 tons, 29 ft., (1899), Jos. Brown, Lindsay.

Rheata, stm., 27 tons, 48 ft., (1882), John S. Kinnie, Midland, Ont.
Rhoda May, stm., 18 tons, 50 ft., (1877), A. P. Ross, Cornwall.

Richmond, str., 14 tons, 39 ft., (1887), Jos. Brimson, oPrt Arthur.

Rideau King, stm., 266 tons, 107 ft., (1893), The Rideau Lakes Nav. Co., Ltd., King-

Rideau Queen, stm., 351 tons, 108 ft., (1900), Rideau Lakes Nav. Co., Ltd., Kingston. Ripple, stm., 5 tons, 32 ft., (1892), Peter Chesterfield, Richard's Landing. Ripple, stm., 2' tons, 15 ft., (1902), J. P. Gibbons, Port Colbourne.

Rob Roy, stm., 5 tons, 30 ft., (1899), Norman Bennet, Orillia. Rob Roy, stm., 13 tons, 41 ft., (1900 and 1904), Robt. M. Roy, Peterborough.

Rob Roy, sail, 341 tons, 144 ft., (1897), The Ontario & Quebec Nav. Co., Ltd.,

Rock, stm., 14 tons, 43 ft., (1883), James Picton, Ont.

Anderson, Midland.

Rockaway, Paddle stmr., 7 tons, 36 ft., (1901), T. H. DeCew, Fenelon Falls.

Rockland, stm., 78 tons, 65 ft., (1882), Hawkesbury Lumber Co., Ltd., Hawkesbury, Ont.

Rooth, Wm. A., stm., 52 tons, 81 ft., (1871), The Great Lakes Towing Co., Ltd., Sar-

Rosamond, stm., 23 tons, 48 ft., (1883), Jas. F. Cannif, Toronto.

†Rosedale, stm., 1507 tons, 246 ft., (1888), Rosedale Limited, Hamilton, Ont.

†Rosemount, stm., 1580 tons, 245 ft., (1896), Montreal Trans. Co., Ltd., Montreal, Que.

Rosina, stm., 2 tons, 29 ft., (—,), L. B. Howland, Brockville. Rosena, stm., 6 tons, 33 ft., (1906), C. J. H. Ames, Medora, Ont.

Ross, Ella, stm., 228 tons, 99 ft., (1879), C. A. Phillips, Parry Sound, Ont.

Ross Point Ferry Boat, sail, 16 tons, 45 ft., (1891), A. J. Campbell, Arnprior. Rosseau, stm., 53 tons, 70 ft., (1880), Wm. Henshaw, Gravenhurst, Ont.

Round Islander, sail 14 tons, 40 ft., (1895), Henry Bauder, Verona.

Rover, stm., 51 tons, 60 ft., (1887), E. H. Horsey, Owen Sound.

Rover, stm., 6 tons, 30 ft., (1893), Blind River Towing Co., Blind River.

Rover, sail, 74 tons, 96 ft., (1870), R. O'Neil,

Rover, sail, 13 tons, 42 ft., (1894), John Rowley, Kingston.

Rover, sail, 46 tons, 75 ft., 1884), Geo. Travis, Wallaceburg.
Roy, stm., 6 tons, 31 ft., (1898), The Georgian Bay Hotel Co., Ltd., Parry Sound, Ont. Royal, sail, 63 tons, 48 ft., (1889), Thos. A.

Clemence, Toronto.
Royal, stm., 5 tons, 31 ft., (1906), Frise Bros., Midland, Ont.

Ruby, stm., 2 tons, 23 II., (10,2), Stewart, Lansdowne.
Ruby, stm., 72 tons, 70 ft., (1878), John Elli-

son, Port Stanley. Ruby, stm., 7 tons, 32 ft., (1893), H. E. Ford,

Rulo, stm., 11 tons, 41 ft., (1903), Ontario Corundum Co., Ltd., Toronto.
Rulo, stm., 9 tons, 47 ft., (1903), Wm. C. Norwood.

Crowther, Toronto, Ont.
Rupert, paddle stmr., 512 tons, 147 ft., (1877),
W. E. Cornell, Toronto.
Russell, Frank, sail, 283 tons, 142 ft., (1871),
James Playfair and W. A. Clark, Jr., Col-

Rutherford, E. H., sail, 286 tons, 133 ft., (1881), Robert Crawford, Kingston, Ont. lingwood.

Sagamo, stm., 744 tons, 152 ft., (1906), Muskoka Lakes Nav. & Hotel Co., Toronto,

Saginaw, stm., 357 tons, 142 ft., (1873), Gt. Lakes Towing Co., Ltd., Sarnia.

Chicou-Saida, stm., 14 tons, 32 ft., (1903), James Saquenay, paddle stmr., 992 tons, (1868-1891). Name changed to Crumb, Dunnville.

Saint Louis, sail, 334 tons, 127 ft., (1877), D. Sylvester, Toronto, Ont.

Salaberry, stm., 222 tons, 99 ft., (1902), Lehigh Portland Cement Co., Ltd., Belleville, Ont.

Salvor, stm., 126 tons, 105 ft., (1898), The Reid Wrecking Co., Ltd., Sarnia. Sampson, stm., 12 tons, 36 ft., (1903), W. W. Carter, Fesserton.

Samson, paddle stmr., 15 tons, 41 ft., (1893), The Upper Ottawa Improvement Co., Ot-

Samson, stm., 121 tons, 101 ft., (1862), Kingston & Montreal Forwarding Co., Kingston.

Sand Fly, sail, 28 tons, 45 ft., (1885), Wm. Hand, Port Dalhousie.

Sand King, stm., 158 tons, 108 ft., (1888), H. F. Cumming, Cornwall.
Sandford, stm., 56 tons, 72 ft., (1897), James Hunter, Wiarton, Ont. Sandy, sail, 28 tons, 52 ft., (1886), Oscar

Santa Cruz, stm., 106 tons, 53 ft., (1903), Julius Paquin, Wikwemikong. Ont. Matthews, Hamilton.

Sarah, sail, 65 tons, 73 ft., (1871 and 1882), C. Graham, Kincardine.

Saronic, Stm., 1961 tons, 252 ft., (1882), Northern Nav. Co. of Ontario, Ltd., Collingwood, Ont.
Sarto, stm., 18 tons, 56 ft., (1905), C. Desjardines, Montreal, Que.
Saucy Jack, sail, 68 tons, 72 ft., (1864), J. H. McDonald, Toronto. Sarah Jane, sail, 238 tons, 131 ft., (1872), J. S. Nesbitt, Sarnia. Sarnia, stm., 85 tons, 66 ft., (1901), Reid Wrecking Co., Ltd., Sarnia, Ont. Sarona, stm., 32 tons, 71 ft., (1902), Huntsville & Bracebridge Tanning Co., Hunts-Sarama, stm., 2 tons, 25 ft., (1886), Henry S. Osler, Toronto. ville, Ont.

Saucy Jim, str., 93 tons, 84 ft., (1887), W. A. Scott & Mrs. R. J. Fisher, Collingwood,

Sawyer Edgar P., stm., 52 tons, 49 ft., (1886), W. J. McMenemy, Bruce, Mines. Scagel, Willie, stm., 22 tons, 37 ft., (1888), J. Telfer, Jr., Blenheim. Scintilla, stm., 4 tons, 27 ft., (1884), Wm. W. Sparks, Township of Pickering. Scotch Lassie, stm., 2 tons, 25 ft., (1894), Jas. C. Appleby, Lindsay, Ont. Scotch Thistle, stm., 17 tons, 48 ft., (1893), C. Anderson, Little Current. Scotia, stm., 13 tons, 44 ft., (1875), J. D. Warwick, Brockville, Ont. Scotia, stm., 1461 tons, 254 ft., (1900), Minister of Railways and Canals, Ottawa,

Scotsman, stm., 265 tons, 108 ft., (1903), Ottawa Forwarding Co., Ltd., Ottawa.

Scott, L. N., sail, 42 tons, 78 ft., (1903), C. Lac Oureau Lumber Co., Montreal, Que. Scott, Thomas R., stm., 258 tons, 138 ft., (1887), The Peninsula Tug & Towing Co., Ltd., Wiarton, Ont.

Scott, Walter, stm., 26 tons, 36 ft., (1876), J. W. Maitland, Owen Sound.

‡Scottish Hero, stm., 2202 tons, 297 ft., (1895), Can. Lake & Ocean Nav. Co., Toronto, Ont.

Scow No. 1, sail, 87 tons, 96 ft., (1903), Great Lakes Dredging Co., Ltd., Port Scout, stm., 176 tons, 103 ft., (1900), Minister of Marine and Fisheries, Ottawa.

Scow No. 2, sail, 112 tons, 73 ft., (1903), Great Lakes Dredging Co., Ltd., Port Arthur, Ont. Arthur, Ont.

Scow No. 1, sail, 253 tons, 138 ft., (1901), Riordan Paper Mills, Ltd., Merritton.

Scow No. 2, sail, 251 tons, 138 ft., (1901), Riordan Paper Mills, Ltd., Merritton. Scow No. 3, sail, 138 tons, 103 ft., (1901), Riordan Paper Mills, Ltd., Merritton.

Scow No. 28, sail, 230 tons, 104 ft., (1891), Great Lakes Dredging Co., Ltd., Port Arthur, Ont.

Scow No. 29, sail, 230 tons, 104 ft., (1891), Great Lakes Dredging Co., Ltd., Port Arthur, Ont.

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Sea Gull, stm., 15 tons, 42 ft., (1907), Frank
Dompier, Port Coldwell, Ont.
Sea Gull, stm., 51 tons, 51 ft., (1862), Henry
Bell, Sault Ste. Marie.
Sea Gull, stm., 150 tons, 82 ft., (1906), J. B.
Smith & Sons, Ltd., Toronto, Ont.
Sea Gull, stm., 9 tons, 32 ft., (1893), D. Moreau, Port Severn. Scow No. 31, sail, 82 tons, 72 ft., (1891), Great Lakes Dredging Co., Ltd., Port Sea Bird, sail, 121 tons, 91 ft., (1867), Mrs. Mary A. Cameron, Picton, Ont. Sea Flower, stm., 7 tons, 35 ft., (1883), John McL. Stevenson, Barrie. Arthur, Ont. Scudder, stm., 5 tons, 37 ft., (1903), John Rogers, Port Sandfield.

Sea King, stm., 26 tons, 58 ft., (1892), Dominion Fish Co., Ltd., Winnipeg, Man. Seaman, Lillie, stm., 19 tons, 45 ft., (1907), N. D. Seaman, Sauble Falls, Ont. Sea Queen, stm., 18 tons, 52 ft., (1892), Dominion Fish Co., Ltd., Winnipeg, Man. Secret stm., 9 tons, 55 ft., (—), J. B. Fair-

grieve, Hamilton.

Seguin, stm., 1141 tons, 207 ft., (1890), J.
B. Miller, et al., Toronto.
Selkirk, sail, 719 tons, 183 ft., (1894), Montreal Trans. Co., Ltd., Montreal, Que.
Semillante, stm., 9 tons, 40 ft., (1905), S. Gaudreau, Que.

Sensation, stm., 15 tons, 37 ft., (1873), The Minister of Public Works, Ottawa.

Shamrock, stm., 237 tons, 117 ft., (1898), Minister of Marine and Fisheries, Ottawa. Shamrock, paddle stmr., 154 tons, 103 ft., (1885), The Toronto Ferry Co., Ltd., To-Sephie, sail, 261 tons, 136 ft., (1889), Ontario Lumber Co., Ltd., Toronto. Seymour, W. H., stm., 85 tons, 66 ft., (1874), N. H. Wright, Cutler. Shamrock, stm., 4 tons, 31 ft., (1903), Robt. Johnston, Port Sandfield.

Shanly, stm., 40 tons, 60 ft., (1890), The Parry Sound Lumber Co., Ltd., Parry Sound, Ont. Shamrock III, sail, 70 tons, 50 ft., (1903), Ontario Corundum Co., Ltd., Ottawa.

Sharon, stm., 14 tons, 46 ft., (1903), C. J. Smith, et al., Walkers Point, Ont. Shawanaga, stm., 96 tons, 80 ft., (1882), A. G. McKay, Owen Sound, Ont. Shepherd Boy, sail, 62 tons, 83 ft., (1893), T. H. Kirby, Ottawa.

Shickluna, Lewis, stm., 16 tons, 45 ft., (1878), James Murray, St. Catherines. Shoofly, stm., 10 tons, 35 ft., (1893), J. A. Stillar, Callender.

Siebold, Wm. H., stm., 22 tons, 58 ft., (1887), Dominion Fish Co., Ltd., Winnipeg, Man. Shoo Fly, stm., 25 tons, 44 ft., (1870), S. T. Reeves, Windsor.

Sieman, Anna, stm., 19 tons, 41 ft., (1901), F. J. & R. Corbett, Owen Sound, Ont.

Smith, Henry, stm., 40 tons, 69 ft., (1877), C. W. Gauthier, Sandwich. Snow Ball, sail, 23 tons, 60 ft., (1881), A. Morrison, Tilbury East.
Snowstorm, stm., 17 tons, 53 ft., (1891), Jos.
Goodwin, Toronto.
Soncie, stm., 14 tons, 46 ft., (1900), J. B. Tudhope, Orillia. Soo City, formerly Mabel Bradshaw, stm., 500 tons, 135 ft., (1889), Herbert Cleland, Collingwood, Ont. Sorel, paddle stmr., 158 tons, 108 ft., (1871), Richelieu & Ontario Nav. Co., Montreal, Southwood, stm., 19 tons, 67 ft., (1884), D. W. Alexander, Toronto. Sovereign, sail, 53 tons, 83 ft., (1876), James Mullens, Belleville. Sparrow, stm., 38 tons, 56 ft., (1882), John B Smith, et al., Toronto. Spartan, stm., 2 tons, 28 ft., (1887), Edwyn B. Spray, stm., 47 tons, 74 ft., (1888), James Mahaff-Sovereign, stm., 45 tons, 66 ft., (1904), Chas. Sport, stm., 16 tons, 36 ft., (1897), A. Rob-J. Snyder, Peterborough. ertson, Kenora, Ont. erty, Port Albert. Andros, Barrie. Siesta, stm., 99 tons, 98 ft., (1882), F. N. Waldie, Toronto, Ont. Siesta, stm., 5 tons, 31 ft., (1905), J. C. Cant-Silver Wing, stm., 3 tons, 26 ft., (1890), H. F. Hodson, Toronto. Simla, stm., 1490 tons, 225 ft., (1903), Calvin Co., Garden Island, Ont. Sligo, sail, 284 tons, 137 ft., (1874), Haney & Miller, Toronto, Ont.
Smith, Agnes, stm., 57 tons, 64 ft., (1904), John Henderson, and Lorne Smith, J. O., Siren, sail, 307 tons, 137 ft., (1874), The Montreal Trans. Co., Ltd., Montreal, Que. Sir Hector, sail, 183 tons, 106 ft., (1883), W. J. Poupore, Montreal, Que. Siskiwitt, stm., 47 tons, 68 ft., (1879), Alfred K. Keefer, Port Arthur. Smith, W. J., stm., 26 tons, 54 ft., (1877), W. J. Smith, Richards Landing. ley, Georgian Bay, Ont.
Siesta, stm., 3 tons, 31 ft., (1888), Henry
Whitehead, Gravenhurst, Ont. Singapore, sail, 186 tons, 106 ft., (1878), J. C. Sutherland, Goderich. Smith, Lillie, stm., 275 tons, 130 ft., (1888), Geo. E. Smith, Southampton. Smith, R. A., sail, 11 tons, 40 ft., (1877), Horace Bartlett, Sarnia. Skye Pilot, stm., 5 tons, 36 ft., (1902), James Skylark, stm., 43 tons, 105 ft., (1874), Hon. Clifford Sifton, Ottawa. R. Moodie, Hamilton, Ont. Little Current, Ont.

Spray, stm., 42 tons, 60 ft., (1874), D. B. Mc-Donell, Cambridge. Spray, stm., 15 tons, 42 ft., (1888), John McRae, Meaford, St. Adolph, B. B., sail, 25 tons, 47 ft., (1906), A. Degagne, Ileaux Coudres, Que. Scow No. 31, sail, 82 tons, 72 ft., (1891), Great Lakes Dredging Co., Ltd., Port Arthur, Ont. Scudder, stm., 5\_tons, 37 ft., (1903), John Rogers, Port Sandfield.

Sea Bird, sail, 121 tons, 91 ft., (1867), Mrs. Mary A. Cameron, Picton, Ont. Sea Flower, stm., 7 tons, 35 ft., (1883), John

McL. Stevenson, Barrie.
Sea Gull, stm., 15 tons, 42 ft., (1907), Frank
Dompier, Port Coldwell, Ont.
Sea Gull, stm., 51 tons, 51 ft., (1862), Henry
Bell, Sault Ste. Marie.
Sea Gull, stm., 150 tons, 82 ft., (1906), J. B.
Smith & Sons, Ltd., Toronto, Ont.
Sea Gull, stm., 9 tons, 32 ft., (1893), D. Moreau, Port Severn.

Sea King, stm., 26 tons, 58 ft., (1892), Dominion Fish Co., Ltd., Winnipeg, Man. Seaman, Lillie, stm., 19 tons, 45 ft., (1907), N. D. Seaman, Sauble Falls, Ont. Sea Queen, stm., 18 tons, 52 ft., (1892), Dominion Fish Co., Ltd., Winnipeg, Man. Secret stm., 9 tons, 55 ft., (—), J. B. Fair-

grieve, Hamilton.

Seguin, stm., 1141 tons, 207 ft., (1890), J.B. Miller, et al., Toronto.Selkirk, sail, 719 tons, 183 ft., (1894), Montreal Trans. Co., Ltd., Montreal, Que. Semillante, stm., 9 tons, 40 ft., (1905), S.

Sensation, stm., 15 tons, 37 ft., (1873), The Minister of Public Works, Ottawa. Gaudreau, Que.

Sephie, sail, 261 tons, 136 ft., (1889), Ontario Lumber Co., Ltd., Toronto. Seymour, W. H., stm., 85 tons, 66 ft., (1874), N. H. Wright, Cutler.

Shamrock, stm., 4 tons, 31 ft., (1903), Robt. Johnston, Port Sandfield.

Shamrock, paddle stmr., 154 tons, 103 ft., (1885), The Toronto Ferry Co., Ltd., To-Shamrock, stm., 237 tons, 117 ft., (1898), Minister of Marine and Fisheries, Ottawa.

Shamrock III, sail, 70 tons, 50 ft., (1903), Ontario Corundum Co., Ltd., Ottawa. Shanly, stm., 40 tons, 60 ft., (1890), The Parry Sound Lumber Co., Ltd., Parry Sound, Ont.

Sharon, stm., 14 tons, 46 ft., (1903), C. J. Smith, et al., Walkers Point, Ont. Shawanaga, stm., 96 tons, 80 ft., (1882), A. G. McKay, Owen Sound, Ont. Shepherd Boy, sail, 62 tons, 83 ft., (1893), T. H. Kirby, Ottawa.

Shickluna, Lewis, stm., 16 tons, 45 ft., (1878), James Murray, St. Catherines. Shoofly, stm., 10 tons, 35 ft., (1893), J. A. Stillar, Callender.

Shoo Fly, stm., 25 tons, 44 ft., (1870), S. T. Reeves, Windsor.

Siebold, Wm. H., stm., 22 tons, 58 ft., (1887), Dominion Fish Co., Ltd., Winnipeg, Man. Sieman, Anna, stm., 19 tons, 41 ft., (1901), F. J. & R. Corbett, Owen Sound, Ont. Siesta, stm., 99 tons, 98 ft., (1882), F. N. Waldie, Toronto, Ont. Siesta, stm., 5 tons, 31 ft., (1905), J. C. Cantley, Georgian Bay, Ont. Siesta, stm., 3 tons, 31 ft., (1888), Henry Whitehead, Gravenhurst, Ont. Silver Wing, stm., 3 tons, 26 ft., (1890), H. F.

Hodson, Toronto. Simla, stm., 1490 tons, 225 ft., (1903), Calvin Co., Garden Island, Ont.

Singapore, sail, 186 tons, 106 ft., (1878), J. C. Sutherland, Goderich.

Siren, sail, 307 tons, 137 ft., (1874), The Montreal Trans. Co., Ltd., Montreal, Que.
Sir Hector, sail, 183 tons, 106 ft., (1883), W.
J. Poupore, Montreal, Que.
Siskiwitt, stm., 47 tons, 68 ft., (1879), Alfred K. Keefer, Port Arthur.

Skye Pilot, stm., 5 tons, 36 ft., (1902), James

R. Moodie, Hamilton, Ont. Skylark, stm., 43 tons, 105 ft., (1874), Hon. Clifford Sifton, Ottawa.

Sligo, sail, 284 tons, 137 ft., (1874), Haney & Miller, Toronto, Ont.
Smith, Agnes, stm., 57 tons, 64 ft., (1904), John Henderson. and Lorne Smith, J. O., Little Current, Ont.

Smith, Lillie, stm., 275 tons, 130 ft., (1888), Geo. E. Smith, Southampton.

Smith, W. J., stm., 26 tons, 54 ft., (1877), W. J. Smith, Richards Landing. Smith, R. A., sail, 11 tons, 40 ft., (1877), Horace Bartlett, Sarnia.

Smith, Henry, stm., 40 tons, 69 ft., (1877), C. W. Gauthier, Sandwich.
Snow Ball, sail, 23 tons, 60 ft., (1881), A. Morrison, Tilbury East. Snowstorm, stm., 17 tons, 53 ft., (1891), Jos. Goodwin, Toronto.
Soncie, stm., 14 tons, 46 ft., (1900), J. B. Tudhope, Orillia.

Soo City, formerly Mabel Bradshaw, stm., 500 tons, 135 ft., (1889), Herbert Cleland, Collingwood, Ont. Sorel, paddle stmr., 158 tons, 108 ft., (1871), Richelieu & Ontario Nav. Co., Montreal,

Southwood, stm., 19 tons, 67 ft., (1884), D. W. Alexander, Toronto. Sovereign, sail, 53 tons, 83 ft., (1876), James Mullens, Belleville.

Sovereign, stm., 45 tons, 66 ft., (1904), Chas. J. Snyder, Peterborough.

Sparrow, stm., 38 tons, 56 ft., (1882), John B Smith, et al., Toronto.
Spartan, stm., 2 tons, 28 ft., (1887), Edwyn B. Andros, Barrie. Sport, stm., 16 tons, 36 ft., (1897), A. Rob-

Spray, stm., 47 tons, 74 ft., (1888), James Mahafferty, Port Albert. ertson, Kenora, Ont.

Spray, stm., 42 tons, 60 ft., (1874), D. B. Mc-Donell, Cambridge. Spray, stm., 15 tons, 42 ft., (1888), John McRae, Meaford.

St. Adolph, B. B., sail, 25 tons, 47 ft., (1906), A. Degagne, Ileaux Coudres, Que.

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Alexis, sail, 52 tons, 68 ft., (1906), T. L. Simard, Grande Bail, Que. Charles, stm., 26 tons, 42 ft., (1904), Alfred Macdonald, Peterborough.

Clair, sail, 101 tons, 82 ft., (1875), Peter Haggbloom, Port Burwell. Clair Flat, stm., 17 tons, 41 ft., (1867), David Foster, Port Burwell.

George, stm., 21 tons, 61 ft., (1886), Frank

Simpson, Toronto.
George, stm., 5 tons, 35 ft., (1903),
Robert Maw, Toronto, Ont.
Irenee, formerly Canada, 1768 tons, 248 ft.,
(1866), Richelieu & Ont. Nav. Co., Montreal.
Joe, stm., 118 tons, 70 ft., (1902), Jos. Servais, Port Arthur.

Joe, stm., 39 tons, 56 ft., (1907), Mrs. R. B. McCaul, Sault Ste. Marie, Ont. Julian, stm., 20 tons, 48 ft., (1884), J. H. Davis, Gananoque.

St. Laur't, Petit, stm., 10 tons, 38 ft., (1904),
J. A. Petit, Grand Mere, Que.
St. Lawrence, dredge, 125 tons, 90 ft.,
(1890), Manley Dredging Co., Toronto,

Paul, sail, 65 tons, 88 ft., (1906), P. Joly, St. Anne de Sorel, Que. Paul, stm. 45 tons, 65 ft., (1875), The Minister of Public Works, Ottawa.

Romuald, sail, 138 tons, 109 ft., (1906), E. Daneau, Notre Dame de Pierreville, St.

Stanley, stm., 914 tons, 201 ft., (1888), The Minister of Marine and Fisheries, Ottawa.

Stanley, stm., 2 tons, 16 ft., (1902), John H. Stanley, Port Colborne, Ont. Stanley, H. M., sail, 305 tons, 132 ft., (1873) Morden Transit Co., Ltd., Midland, Star, stm., 13 tons, 37 ft., (1901), Geo. A. Brown, Port Burwell. Startled Fawn, stm., 25 tons, 60 ft., (1890), Mrs. Eva Preston and Phoebe L. Thompson, Stanley, paddle stmr., 7 tons, John A. Ellis, Fenelon Falls.

Belleville.
Stella, stm., 16 tons, 48 ft., (——), Henry Fowlds Sharp, Toronto.
Stella, stm., 9 tons, 24 ft., (1879), A. Tate and Jas. G. Tate, Penetanguishene.
Stella, stm., 16 tons, 44 ft., (1892), Jas. W.

Vance, Spanish Station, Ont.

Stella, sail, 5 tons, 80 ft., (1892), R. W. Eyre and A. B. Holcroft, Toronto.

Stewart, Archie, stm., 80 tons, 81 ft., (1890), Ottawa Transportation Co., 14d., Ottawa.

Stiletto, stm., 14 tons, 36 ft., (1897), F. S. Grise,

Midland.

Stone, Walter H., stm., 35 tons, 64 ft., (1889), Albert Henning, Pelee Island. Stoney Lake, stm., 156 tons, 86 ft., Patrick P. Young, Young's Point.

Storey, James, stm., 49 tons, 63 ft., (1888), H. W. Saxton, Aylmer.

‡Stormount, stm., 1955 tons, 249 ft., (1907), Montreal Transportation Co., Ltd., Montreal, Que. Stranger, paddle stmr., 28 tons, 60 ft., (1880), F. Crandell, Lindsay. \*Strathcona, stm., 1881 tons, 249 ft., (1900), R. O. and A. B. McKay, Hamilton, Ont. Strong, W. J., stm., 41 tons, 58 ft., (1900), W. J. Suffell, W. J., sail, 238 tons, 120 ft., (1874), J. Corson, Port Hope.
Sultan, sail, 32 tons, 65 ft., (1889), Ontario & Western Lumber Co., Ltd., Kenora,

Sunbeam, stm., 4 tons, 31 ft., (1884), John Rogers, Medora, Muskoka.

Sunbeam, stm., 13 tons, 29 ft., (1886), Frederick Burnett, Birdsall.

Superior, stm., 89 tons, 90 ft., (1881), Jos. Ganley, Sault Ste. Marie, Ont.

Supply No. 3, stm., 11 tons, 29 ft., (1907), The Playfair, Preston Co., Ltd., Midland, Ont.
Sutton Belle, stm., 6 tons, 81 ft., (1880), Chas. Goodyear, Sutton.

Swan, stm., 12 tons, 48 ft., (1892), W. J. Chap-Swan, stm., 14 tons, 53 ft., (1895), H. Swan, Port man, Perth.

Swan, stm., 8 tons, 36 ft., (1899), Wm. A. Cross, Burwell.

Fort Arthur.

Swastika, stm., 9 tons, 43 ft., (1907), John
H. Davis, Kingston, Ont.

Sweepstakes, stm., 28 tons, 37 ft., (1901), The Ontario Lumber Co., Toronto, Ont. Sweet Mary, stm., 13 tons, 40 ft., (1889), Charles Martin, Port Severn.
Sylvester, stm., 27 tons, 45 ft., (1895), W. S. Shaw, Bracebridge.

Leeson, Merritton, Ont.
Taylor, W. J., stm., 9 tons, 35 ft., (1883), St.
Clair Tunnel Co., Sarnia.
Tecumsel, stm., 10 tons, 37 ft., (1895), Wm.
Fraser, Little Current.
Tecumsel, stm., 840 tons, 200 ft., (1873), P.
McArthur, Toronto. Tadenac, stm., 9 tons, 40 ft., (----), Tadenac Club, Ltd., Toronto.\_\_\_ Tadousac, formerly Virginia, paddle stmr., 1701 tons, 248 ft., (1879), Richelieu & Ont. Nav. Co., Montreal, Que.
Ta-Kit-Esy, stm., 5 tons, 43 ft., (1899), W. J. Poupore, Montreal, Que.
Taylor, Ella, stm., 34 tons, 60 ft., (1883), R. Leeson, Merritton, Ont.

Telegram, stm., 198 tons, 108 ft., (1885), The Dominion Fish Co., Ltd., Winnipeg, Man. Temagami, stm., 12 tons, 70 ft., (1898), Temagami Nav. Co., Ltd., Toronto, Ont.

Temperance, sail, 38 tons, 66 ft., (1877), J. B. Gervais, Tilbury West.

Tender, stm., 31 tons, 56 ft., (1880), W. White, Tempest, stm., 21 tons, 64 ft., (1884), Reid Wrecking Co., Ltd., Sarnia. Midland.

rrebonne, paddle stmr., 636 tons, 156 ft., (1871-1895), Richelieu & Ont. Nav. Co., Montreal. Terrebonne,

†Theano, stm., 1534 tons, 241 ft., (1890), Algoma Central S. S. Lines, Sault Ste. Marie. Thelma, stm., 3 tons, 24 ft., (1906), S. Halli-

day, Redwood, Ont.
Thelma, stm., 19 tons, 40 ft., (1905), K. B.
DeMill, Wellington, Ont.

Theresa, stm., 84 tons, 85 ft., (1885), John Fleming and A. Tymon, Toronto, Ont. Theresa, stm., 26 tons, 49 ft., (1900), Knight Bros. Co., Ltd., Burk's Falls, Ont. Thirty-three, sail, 91 tons, 92 ft., (1870), David Gilmour, Trenton.
Thistle, paddle stmr., 78 tons, 122 ft., (1882-1894), The Toronto Ferry Co., Ltd., Toronto. Thistle, stm., 36 tons, 66 ft., (1881-1891), The Rondeau Tug Co., Ltd., Blenheim, Ont. Thistle, sail, 23 tons, 48 ft., (1884), Angus Mc-Kinnon, Kenora, Ont.
Thistle, sail, 117 tons, 108 ft., (1869), John Eligh and David Eligh, Burritt's Rapids.
Thomson, David G., stm., 182 tons, 103 ft., (1883), Montreal Trans. Co., Ltd., Montreal, Que.

Thrush, sail, 584 tons, 181 ft., (1890), Kingston & Montreal Forwarding Co., Ltd., Kingston. Thyra, stm., 34 tons, 66 ft., (1887), F. B. Poeson, Toronto, Ont.

Tiger, stm., 4 tons, 34 ft., (1896), Ontario Corundum Co., Ltd., Ottawa.
Tillicum, stm., 3 tons, 29 ft., (1907), Malcolm L. Butler, Brighton, Ont.
Tit Willow, stm., 17 tons, 49 ft., (1891), J. D. Deacon and E. A. Dunlop, Pembroke.
Todman, H. N., sail, 110 tons, 92 ft., (1867), Wm. Stone Rice, Puce.
Togo, stm., 15 tons, 44 ft., (1905), C. J. Clark, Massey, Ont.
Topsy, sail, 22 tons, 46 ft., (1866), Mrs. Sarah M. Carman, Iroquois.

Cropp, et al., Penetanguishene, Ont.

Torpy, stm., 8 tons, 34 ft., (1907), John Paulwert, Rossport, Ont.
Tradewind, sail, 181 tons, 100 ft., (1868), J. Oliver, Kingston.
Tranquilo, stm., 39 tons, 77 ft., (1892), Electrical Development Co., Toronto.
Traveler, stm., 438 tons, 140 ft., (1871), Midland Towing & Wkg. Co., Ltd., Midland.
Trent, paddle stmr., 20 tons, 36 ft., (1893), D. Gilmour, Trenton. Toronto, paddle stmr., 2779 tons, 269 ft., (1899),
Richelieu & Ont. Nav. Co., Montreal.
Toronto Belle, stm., 17 tons, 44 ft., (1880),
American Lumber Co., Toronto.
Torpedo, stm., 8 tons, 34 ft., (1898), Toronto Construction Co., Ltd., Toronto. Ont.

Trois Rivieres, paddle stm., 1552 tons, 218 ft., (1869), Richelieu & Ont. Nav. Co., Montreal, Que.

Tropic, stm., 9 tons, 40 ft., (1885), Dr. Wm. A. Gray, Smith's Falls. Trudel II, stm., 15 tons, 40 ft., (1904), J. B. Klock, Mattana, Ont.

Turbinia, stm. 1064 tons, 250 ft., (1904), Turbinia S. S. Co., Ltd., Hamilton, Ont. Try, sail, 84 tons, 91 ft., (1860), E. Griffin, Ottawa.

Turret Cape, stm., 1827 tons, 253 ft., (1895), Can. Lake & Ocean Nav. Co., Toronto.
Turret Chief, stm., 1881 tons, 253 ft., (1896), Can. Lake & Ocean Nav. Co., Toronto.

Turret Court, stm., 1879 tons, 253 ft., (1896), Can. Lake & Ocean Nav. Co., Toronto.

Turret Crown, stm., 1827 tons, 258 ft., (1895)
Can. Lake & Ocean Nav. Co., Toronto.
Two Brothers, sail, 56 tons, 95 ft., (1881), Geo.
Cousins, Belleville. Twylight, sail, 41 tons, 79 ft., (1882), Clement Bell, Belleville.

 Umbria, stm., 43 tons, 58 ft., (1889), Jas. Murray, St. Catharines, Ont.
 Una, stm., 22 tons, 46 ft., (1885), David S. Pratt, Midland, Ont. Ullacalcula, stm., 6 tons, 38 ft., (1900), Chas. W. Turner, Cambellford.

Uncle Jim, stm., 11 tons, 50 ft., (1886), Robt. Graham and Matthew Graham, Kagawong. Uncle Tom, stm., 8 tons, 47 ft., (1893), Levi Young, Port Bruce.
Undine, stm., 17 tons, 49 ft., (1889), The Mine Centre Lumber Co., Ltd., Fort William,

Ungava, sail, 1226 tons, 200 ft., (1906), Montreal Transp. Co., Montreal, Que.
Union, stm., 75 tons, 87 ft., (1884), J. A.
Thibadeau, Pembroke.
Union, paddle stmr., 267 tons, 132 ft., (1866),
The Fort Erie Ferry Ry. Co., Fort Erie.
United Lumberman, stm., 399 tons, 139 ft.,
(1884), Geo. H. Morden, Oakville.
Uno, sail, 75 tons, 76 ft., (1892), S. W. Whitley,

Vacuna, stm., 52 tons, 75 ft., (1896), J. P. Wiser, Prescott.

Vale, Maida, stm., 19 tons, 46 ft., (1902), Henry G. Buck, Norwood.
Valeda, stm., 2 tons, 30 ft., (——), Charles Lemoine, Pembroke.

Valencia, sail, 543 tons, 178 ft., (1888), Montreal Trans. Co., Ltd., Montreal, Que. Valeria, stm., 52 tons, 75 ft., (1891), Luke Mallon, Morrisburg, Ont.

Van Allen, D. R., stm., 318 tons, 136 ft., (1874),
Peter Payette, Penetanguishene.
Van Straubenzie, Sir C. T., sail, 317 tons, 127 ft.,
(1875), Pittsburg & Erie Coal Co., Ltd.,

Toronto, Ont.

Varennes, formerly Cultivateur, paddle stmr., 962 tons, 170 ft., (1874), Richelieu & Ont. Nav. Co., Montreal.

Varuna, stm., 134 tons, 94 ft., (1880), J. E. Rathbun, Picton, Ont.

Vedette, sail, 6 tons, 46 ft., (1892), F. M. Gray and J. C. Reid, Toronto.
Vega, stm., 7 tons, 37 ft., (1884), J. K. Mac-Vega, stm., 7 tons, donald, Toronto.

Venetta, stm., 31 tons, 61 ft., (1898), David Smith, Toronto.

Vera A., stm., 11 tons, 35 ft., (1902), Georgian Bay Lumber Co., Waubaushene. Verbena May, stm., 16 tons, 38 ft., (1888), Richard Gawley, Mars P. O.

Vergey, stm., 18 tons, 54 ft., (1888), Thos. H. Lawry, Hamilton.

Vernon Jr., stm., 46 tons, 70 ft., (1902), Wm. H. Comstock, Brockville, Ont. Verva, stm., 55 tons, 66 ft., (1898), John Waldie, Toronto. Vesper, stm., 2 tons, 30 ft., (1887), W. T. Gibbard, Napanee. Vesta, stm., 8 tons, 28 ft., (1895), Oronhyateka,

Toronto.

Victoria, stm., 3 tons, 31 ft., (1891), W. F. Davidson, Colpoy's Bay.
Victoria, stm., 13 tons, 37 ft., (....), Peter Light, Tp. of Tiny, Simcoe Co.
Victoria, stm., 23 tons, 60 ft., (1878), The Minister of Public Works, Ottawa.
Victoria, sail, 156 tons, 109 ft., (1870), Allan J. Holloway, Toronto.

Victoria, paddle stmr., 191 tons, 93 ft., (1867), Whitby & Port Perry Ry. Co., Whitby.
Victoria, stm., 58 tons, 72 ft., (1900), The Brockville Nav. Co., Ltd., Brockville, Ont. Victoria, stm., 4 tons, 35 ft., (1894), R. B. Rogers, Peterborough.
Victoria, stm., 25 tons, 42 ft., (1901), Victoria Harbor Lumber Co., Ltd., Toronto.
Victoria, K., stm., 41 tons, 72 ft., (1903), M. G. McDonald, Blind River.

Vigilant, stm., 396 tons, 177 ft., (1904), Minister of Marine and Fisheries, Ot-

Craigie, Rossport.
Viking, sail, 39 tons, 62 ft., (1891), F. H. Mitchell, Oakville. Viking, stm., 15 tons, 44 ft., (1902), Thomas

Viola, stm., 5 tons, 35 ft., (1905), Arthur E. Maskers, Niagara-on-the-Lake, Ont. Viola, stm., 68 tons, 100 ft., (1883), The Viola Steam Yacht Co., Toronto.

Viper, stm., 8 tons, 40 ft., (1899), F. J. Drake, Kingston.

Viper, stm., 34 tons, 60 ft., (1901), Wm. Collis, Bruce Mines. Virginia, sail, 185 tons, 110 ft., (1874), Kingston & Montreal Forwarding Co., Ltd., Kingston. Vister, Bella, stm., 8 tons, 46 ft., (1902), John H. Wilmott, Beaumaris, Ont.

Viva, stm., 7 tons, 33 ft., (1893), John McEwen,

Vivid, stm., 56 tons, 83 ft.; (1886), Frank B. Polson, Toronto. Sarnia.

Vixen, stm., 68 tons, 48 ft., (1886), J. H. Mc-Caul, Sault Ste. Marie.

Vladimir, sail, 43 tons, 44 ft., (1897), S. Brown,

Bracebridge.

Volunteer, sail, 197 tons, 110 ft., (1874), Barnard Palmatier, Bellville, Ont.
Volunteer, sail, 59 tons, 88 ft., (1891), Barney
Black, Kingston.
Vreda, sail, 18 tons, 53 ft., (1888), A. G. Peu-

chen, Toronto.

Wade, Minnie, stm., 9 tons, 35 ft., (1871), J. D. Johnston, Belle Ewart, Ont.

‡Wahcondah, stm., 1554 tons, 230 ft., (1903), R. O. & A. B. McKay, Hamilton.
Wahnapitae, stm., 153 tons, 91 ft., (1904), C. Beck Mfg. Co., Ltd., Penetanguishene.
Wales, stm., 350 tons, 126 ft., (1881), Westcott Wrecking Co., Sarnia.
Wanda, stm., 4 tons, 36 ft., (1878), O. Bascom,

Kemptville.
Wanda, stm., 39 tons, 65 ft., (1889), Daniel O'Connor, Temagami, Ont.
Wanda, stm., 6 tons, 34 ft., (1904), John H.

Davis, Kingston.

Wanda II, stm., 51 tons, 94 ft., (1905), T. Eaton, Toronto, Ont.

Wanderer, sail, 110 tons, 80 ft., (1866), John Spence, Jr., Southampton.

Wanita, stm., 44 tons, 64 ft., (1896), R. J. Watson, Burk's Falls, Ont.

Wapenao, stm., 5 tons, 40 ft., (1693), T. Eaton, Toronto.

Wasaga, stm. formerly Wissahickon, 1745 tons, 244 ft., (1875), Collingwood Shipping Co., Ltd., Collingwood, Ont. Waterlily, stm., 2 tons, 25 ft., (1904), Chas.

Water Lily, stm., 95 tons, 100 ft., (1891), A. W. H. Gray, Gananoque.

Water Lily, stm., 54 tons, 80 ft., (1897-1901), Henry Calcut, Peterborough. Hepburn, Picton.

Water Witch, stm., 18 tons, 44 ft., (1900), Michael Dovey, Lindsay.

Water Witch, stm., 9 tons, 40 ft., (1880), J. H. Dunsford, Lindsay.

Watts, R., stm., 27 tons, 24 ft., (1887), Robt. Watts, Hamilton.

Waubaushene, stm., 96 tons, 71 ft., (1882), Peninsula Tug & Towing Co., Wfarton,

Waubaushene, stm., 135 tons, 78 ft., (1904), Georgian Bay Lumber Co., Ltd., Waubau-..

Waubaushene, sail, 478 tons, 149 ft., (1872), Collins Bay Rafting & Forwarding Co., Kingston. shene.

Wauneta, stm., 2 tons, 25 ft., (1906), T. & W. Gordon, Lakefield, Ont.

Wawaskesh, stm., 19 tons, 37 ft., (1903), Wm. E. Bisgood, Toronto. Wawinet, stm., 68 tons, 87 ft., (1904), Wm.

McKenzie, Toronto,

We C. U., stm., 6 tons, 57 ft., (1898), W. E. Hardison, Welland, Ont.
Weddell, Rob. G., stm., 45 tons, 66 ft., (1907), Robert Weddell, Trenton, Ont.
Welcome, stm., 21 tons, 52 ft., (1886), Thos.
Falls and James Poole, Meldrum Bay.
Welshman, stm., 204 tons, 105 ft., (1900), The

Ottawa Forwarding Co., Ltd., Ottawa, Ont.

Wenona, stm., 26 tons, 66 ft., (1905), Upper Ontario Steamboat Co., Ltd., New Liskeard, Ont.

Wenonah, stm., 6 tons, 37 ft., (1899), Wm. Mc-Laren, Perth.

Wenonah, stm., 93 tons, 94 ft., (1886 and 1906), R. J. Watson, Burk's Falls, Ont. West, D. C., stm., 60 tons, 80 ft., (1874), J. Fleming, Toronto.

Westmount, stm., 1875 tons, 248 ft., (1903), Montreal Trans. Co., Ltd., Montreal, Que. Westport, stm., 80 tons, 87 ft., (1903), Wesley Brooker, Portland, Ont.

Witherbee, J. G., stm., 165 tons, 111 ft., (1872), B. J. Kaine, St. Alpdechicoutime, Que.

Where Now, stm., 48 tons, 77 ft., (1889), John F. Chapman, Gananoque, Ont.

White, Eliza, sail, 105 tons, 93 ft., (1867-1887), P. McManus, Picton.

ite Oak, sail, 180 tons, 111 ft., (1867), Collins' Inlet Lumber Co., Collins' In-Ont.

White Star, paddle stmr., 9 tons, 30 ft., (1900), Mrs. Ellen White, Lakefield.

#White Star, paddle stmr., 629 tons, 167 ft., (1897-1905), The St. Lawrence Canadian Nav. Co., Ltd., Montreal, Que. White Wings, stm., 3 tons, 35 ft., (1894), T. McDonald, Thurlow.

White Wings, sail, 22 tons, 40 ft., (1886), R. W. Scarfe, Port Credit, Ont.

Wiarton Belle, stm., 88 tons, 103 ft., (1871), John Gidley, Penetanguishene.

Wide Awake, sail, 24 tons, 65 ft., (1887), John Tuttle, Kingston.

William D., stm., 10 tons, 35 ft., (1899), Joseph Griffin, St. Thomas, Ont. William, John, stm., 14 tons, 36 ft., (1888), W. W. Carter, Fesserton.

Williams, Eliza, stm., 50 tons, 62 ft., (1872), Can. Towing & Wrecking Co., Port Arthur, Ont.

Willie, sail, 37 tons, 65 ft., (1871), J. Beausoliel, Sandwich East.

Willis, stm., 2 tons, 30 ft., (1893), D. O'Connor, Willson, Jennie, stm., 7 tons, 36 ft., (1879), Snider Lumber Co., Ltd., Waterloo. Ottawa.

Wilson, Alfred, stm., 33 tons, 45 ft., (1879), D. Sutherland, Chatham, Ont.

Wilson, Wm., stm., 15 tons, 43 ft., (1892-1903), Frank Ross, Port Maitland.

Wiman, Erastus, stm., 54 tons, 65 ft., (1890), Mrs. Mary Denton and Lorenzo McHardy, Huntsville.

Windsor, formerly Iroquois, stm., 1962 tons, 257 ft., (1892), Montreal Transportation Co., Ltd., Montreal, Que. Winnana, stm., 199 tons, 91 ft., (1907), Wm. White, Midland, Ont. Winnie, stm., 14 tons, 48 ft., (1897), L. Belmore,

Southampton.

Winona, stm. 231 tons, 100 ft., (1902), Mrs. Isabella D. White, Midland, Ont. Winslow, stm., 353 tons, 120 ft., (1865), F. F.

Pardee, Sarnia, Ont.

Wolf Islander, stm., 224 tons, 118 ft., (1904), The Corporation of the Township of Wolf Island, Ont. Wona, sail, 4 tons, 27 ft., (----), Wm. P. Eby,

Toronto.

You and I, stm., 25 tons, 52 ft., (1902), John McKeown, Port Maitland.

You, stm., 51 tons, 58 ft., (1906), Sincennes, McNaughton Line, Montreal, Que.

Zara, stm., 35 tons, 55 ft., (1903), Pearsall & Dease, Port Rowan.

Zeila, stm., 3 tons, 36 ft., (1890), B. D. Stacey,

Brockville.

Zelma, stm., 1 ton, 22 ft., (1901), R. L. Morgan, Lindsay.

Zephyr, stm., 19 tons, 52 ft., (1885), Thos. Marks, Port Arthur. Zena, stm., 4 tons, 27 ft., (1886), James Whalen,

Zephyr, stm., 3 tons, 27 ft., (1886), C. A. Bogert, Toronto.

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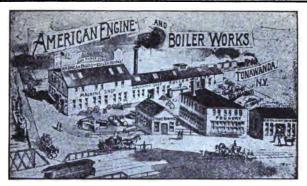
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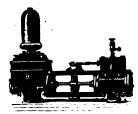
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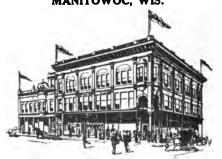
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#### ENDOWMENT FUND IN 1908.

A statement from the secretary showing amounts paid into this fund during 1908 by each subordinate lodge and amounts paid in the same year to beneficiaries of the fund through subordinate lodges.

Buffalo lodge paid into the endowment fund	\$2,494.00
Buffalo lodge paid four death claims to beneficiaries out of endowment fund	3,200.00
Port Huron lodge paid into the endowment fund Port Huron lodge paid five death claims to beneficiaries	
Chicago lodge paid into the endowment fund	\$2,894.00
	4,000.00
Cleveland lodge paid into the endowment fund	\$5,236.00
	5,000.00
Milwaukee lodge paid into the endowment fund	\$1,760.00
Milwaukee lodge paid one claim to beneficiary	1,000.00
Detroit lodge paid into the endowment fund	\$3,840,00
Detroit lodge paid four death claims to beneficiaries or of endowment fund	4,000.00
Marine City lodge paid into the endowment fund  Marine City lodge paid no death claims	\$ 832.00
Toledo lodge paid into the endowment fund	\$ 810.00

#### REPORT OF MEMORIAL COMMITTEE.

To the Grand Lodge, Ship Masters' Association of the Great Lakes: We, your Committee on Memorial, humbly submit the following report:

Life is a mystery, but the profoundest mystery of human ex-

perience, is the mystery of death. Death levels all.

The strongest has no supremacy there; the weakest needs no defense. The wrongs of time and circumstances are redressed by death. It is nature's final decree in equity. Death is remorseless; before his dread altar, the brightness of youth, and the decrepitude of age, fall alike, victims of a common destiny.

Since our last communication, the "Dread Messenger" has invaded our ranks and claimed from our membership those of our associates whom we have learned to love and respect, and whose

voices will never again respond to roll call, namely:

W. Mitchell. M. Fitzgeralds. John Beckley. F. E. Campbell, Henry Bennett, Olof Christenson. J. S. Morrison, J. W. Nicholson, Charles K. Jackson, S. H. Curry, C. B. Crawford, S. A. Gilmore, Henry Geoux, Charles Christy, William Furtain, William Roach, Hall Weimer. Alex. Clarke. William Crawford. M. H. Murch. George McLeod, Dennis Driscol. J. W. Isbester,

It is just a little journey from the cradle to the grave,
Just a wink of time eternal, just one single ocean wave;
All resistless turns the silent, never-resting wheel of Time;
Human specks within its orbit, we are whirling to its rhyme,
And the circles that we travel in the universal one,
Are but flashes of the spindles to the Great Oblivion.
In the infinite and boundless, all unnumbered year on year.
Who shall know when we, transcendent, for a moment lingered
here?

Who but He who planned the cosmos, will have knowledge when we whirled,

Just a flash of flying spindle, in the circles of the world? What shall justify our ego on our evanescent way, When we pause but to consider, we are atoms of a day?

Fraternally,

PETER THOMPSON, JAS. B. LYONS,

Committee.

#### In Memory

#### Of brother Ship Masters who have departed this life since the Association was organized.

John A. Archer. D. M. Becker, J. P. McArthur, Thomas Collins. H. Andrews. John Nelson. P. J. Sexton, J. P. Hodges, John Cotton, H. J. Hatch. Edward Condon. John Condon, Thomas Riordan James Carlisle, Benj. Chambers, Henry Ellis, John Keelin. Robert Haves. Albert Meyers. P. G. Minch, Peter J. Kenney. A. Muir. A. W. Reed. P. Ryan, E. W. Dorsey. E. K. Porter. L. H. Weeks, P. Woods. S. Shannon, W. E. Ladner. H. A. Sisson. H. B. Vosburg. George Scott. Thomas Maytham, E. M. Peck. Ino. R. Gorman. Thos. Harbottle. James Frasier. Louis Guthrie. George W. Stoddard, Albert Meswald. D. M. Tones. James Webber, Thomas Rowley. R. E. Gain. E. J. Purcell. William Carlisle, N. Robinson. Edward Kelley. H. C. Little. Alexander Read. Smith Moore. John C. Flor. Thomas Hackett. Fred G. Boothman, John Wilson, Peter J. Girard, Eugene Winchester, John Cornish. Thomas Beniteau. Patrick Pardee. Zach Sargisson, Alpha Simons, John R. Donahue. J. B. McManus, C. S. Geel. W. H. Cowin, W. S. Mack. Byron Brown. Lorenzo W. Cook, Bernard Wilds. David Critchett. Wm. G. Turner. Robt. Moore. J. S. Lawton, J. W. Farwell, J. W. Martin, Peter Cromley, Thos. Cowan, C. A. Peltier.

Thos. H. Stafford. Wm. H. Wallace. Daniel Jones, Tames Snell. Chas. W. Black, John N. Lundy. Henry Root. John Freer. Alvin Neal. F. I. Cadotte. J. B. Pierce. James Drake. John C. Brown. Delos Waite. John S. Van Rensler. D. H. Bryant. Peter C. Bassett. A. A. Cox. Joseph Nicholson. A. Morrison, John W. Jordan. Wm. Young, Fred N. La Salle. Albert Stewart, F. J. McCabe. Tames Lawless. John Hagan, John Hurley. John Leonard. Jos. L. Munger, J. W. Moore, Chas. Miner. Thos. Currie. W. S. Smith. John Robertson. Thos. Ledden. Michael Breathour. Morton H. Place. W. H. Larrabee, J. D. Mullen.

James Edgecomb. Toseph Shackett, Thomas Walker, Wm. Rolls. E. Saveland. W. H. McNelly. James Donegan, E. T. Hawley, F. D. Welcome. P. Ryan. Wm. Cumming, Wm. Hutcheson. W. R. Williams. C. T. Morley, Thos. Richardson. William Cavers. Martin Johnston, Wm. Morse, John Buie, M. W. Gotham, Henry Jeffrey, C. H. Lewis. L. H. Waterbury, J. C. Carry, A. C. Reimers. E. W. Haskins, B. C. Gray, D. A. McLaughlin. Henry Berlin. Warren Morris, W. W. Brown, J. R. Sinclair, Louis Ryerse, Wm. Dickson. Richard Neville. Charles Brown. R. H. White, A. P. Clinton, Edmund Fitzgerald, J. Harrington, John Jenkins, F. W. Stanton. Tohn McCarthy, James Parsons, W. C. Godsell,

John Coulter. J. C. Thompson, F. A. Chalcraft. Maurice Barrett. Francis Nixon. T. H. Howland. Wm. Shanks. P. A. Anderson. James Dovle. John McNeff. Joseph S. Parsons. Frank Nixon. C. M. Davis. Henry Dawson, Charles McCrea. George King. T. C. Ellis, Daniel Wall. C. B. Chatterson. James W. Millen. J. H. Green. Harry Rodgers. C. F. Moore, Albert M. Gibbs. Toseph Hulligan. George H. Flood. Robert Todd. George M. Dennis. Alex. Begg. L. P. Goodale. F. A. Wetmore, Parlane McFarlane. Thomas Jones. W. A. Irvine. David Curran. Nelson Blair. C. C. Allen. Wm. J. Leaver, Chas. McIntosh, Lysander Davidson, Geo. S. Stilphen. H. W. Blue. J. B. Hocrath, Geo. F. Dayton.

Ed. Smades. Elton E. Rattray, Henry May, Joseph A. Calbick, Timothy Rahill, Geo. W. Burtis, Thos. Delargie. Carlton Graves, Tohn N. Smith. Tames Leitch, John Wright, Geo. Pollick, Ed. C. Copeland, Peter McCulloch. Wm. Mitchell, Paul T. Weimar, Chas. Christy, Henry Bennett, S. A. Gilmore. W. Mitchell, Henry Bennett, T. W. Nicholson, S. H. Curry, C. B. Crawford, Alex. Clarke, Wm. Crawford, Dennis Driscoll, M. Fitzgeralds, F. E. Campbell, T. S. Morrison, S. A. Gilmore, Charles Christie. Hall Weimer. George McLeod, T. W. Isbester, John Beckley, Olof Christenson, Charles K. Jackson, Henry Gegoux, Wm. Furtain, Wm. Roach, M. H. Murch.

#### GRAND PRESIDENT'S REPORT.

Washington, D. C., January 26, 1909.

Brothers:—I will make a few remarks and suggestions to this honorable body.

From reports given to me from our Grand Lodge Secretary and Grand Treasurer, our Association is in better condition and stronger today than in any day of its existence. Members with few exceptions have paid assessments more promptly, which shows that they are sure of a return some day in the future.

To keep up the enthusiasm we now have amongst our members, we should try to have more lodges formed, and new members join. With that end in view I have done my best in talking with brother members, the past season, and I am convinced that it has borne fruit. I received a letter some time ago from Brother Walsh, of Ogdensburg, asking for information in regard to forming a lodge there. I enclosed constitution and by-laws to him, with all information I could give him. I also had Captain Ashley write him.

I received a letter from Captain Murphy, later, stating conditions as they are at the present, which letter I will read. I would suggest you have the new incoming Grand President, Secretary and Treasurer go to Ogdensburg and organize a lodge there, and to notify them at once of your desire, if you see fit to grant their request.

I have also had a request from members to form an auxiliary lodge at Algonac, which I think would increase our membership to 25 if granted. I also took the matter up with Brother McDonald, of Marine City, to see how Marine City Lodge would feel about it. He has also done good work in the matter, which he will speak about under the Good of the Order. As Algonac is within 50 miles of Marine City Lodge, special dispensation will have to be granted. I understand Detroit Lodge will present a resolution asking the creation be reduced for one year, which I think is first-class, and will bring in a great many new members. Talking with outside Captains and Mates with Masters' papers, they all seem to think it a hardship at the present time. This honorable body should consider this well, as it is new and young members we need to keep our valued Association in the high ranks we have now attained.

Another thing that should interest every member is our Directory. Some members are taxed in trading with advertisers in our book, which is injuring it greatly. I have a great many complaints in that score. If our members would only stop and think of the help we get from that book, and trade when possible with our advertisers, we would be in a position to pay from it four or five death claims, which would reduce our assessments one-third. Try, brother officers, and delegates, when you return home, to impress this on all members.

I received a letter some time ago from Capt. D. Sullivan, asking me to place before this Grand Body the unjustness of withholding three thousand dollars insurance money from our late brother Isbester's widow. As Chicago and Buffalo delegates have similar requests to make I will not take up any more time on it, but I will request you to take action on it and in some way let the Aetna Insurance Company know that we will assist the widow.

I have one more request to make, that this body take some action in regard to Captain Van Schaick, who is at present serving an unjust imprisonment. Our petition of last winter has done no good, but we should not stop at that but carry on the good work, and some day we will be rewarded.

Brothers, I want to thank you for the many great honors you have bestowed upon me. Coming from the bottom clear to the top, and keeping me there for two terms, is an honor I will always remember and cherish as I grow older. I have not lived up to all the obligations I took when I accepted this grand office, but sickness in my family and other duties was the only reason of my not visiting all the lodges. I hope my successor in office will receive the same cordial treatment I have. It will give him much more courage to carry the good work along, which I am sure he will do for the good of us all.

Again thanking you, Brothers, for your attention and good will.

Respectfully submitted,

M. G. McINTOSH, Grand President.

## ADDRESS OF C. E. BENHAM, SENIOR PAST GRAND PRESIDENT.

To officers and members of the Grand Lodge of the Ship Masters' Association:—

Brothers:—Since the last session of the Grand Lodge, Captain Alexander Clark, the First Grand President of the Ship Masters' Association, finished his voyage of life, and we trust has anchored in the harbor of eternal rest. The death of Captain Clark leaves your humble servant the Senior Past Officer of this Association. I feel that it is a duty incumbent upon me to attend the Grand Lodge Sessions. I feel that an explanation is due you for my absence the first three days of this session. My absence was due to sickness and death in my family.

The Ship Masters' Association was organized in March, 1886. The organization sprung from a lodge of masters located at Buffalo, N. Y., which was called No. 1. Said lodge was the result of ardent and active efforts put forth by Captain Martin Niland and others. Captain Clark and other members of Buffalo Lodge, went from port to port around the Lakes, and organized other lodges. Representatives from the several lodges formed the first Grand Lodge, and Captain Alexander Clark was made the first Grand President.

Captain Clark had push, tact and persistency, and the success of the Ship Masters' Association is due largely to his efforts.

The purpose of the Association is to improve and elevate the character of its members and to provide a fund for the immediate assistance of the widow and orphan of deceased members. In the lodge room we should meet and not only transact the routine business, but discuss all questions bearing upon the navigation of our ships. From such discussions a large amount of important information is gained, which is of material benefit to every master. When this Association was first formed, it was necessary for a master to hold first-class papers to be eligible to membership-today, owners and owners' representatives are admitted to membership (not active, but honorary). It remains to be seen whether it is for the best interests of the Association to open its doors to others than masters or not. I trust we have made no mistake. As a result of admitting owners, one thing seems evident; that many masters fear to express their views at Lodge Sessions upon important matters in connection with the navigation of their ships, feeling that some of the owners might not look at matters in the same light and use their influence against them. I am loath to believe that any such feeling exists upon the part of the owners. The owners and masters today are members of one association and the success of the association and best interests of masters and owners can only be served by harmonious action. All men are liable to make mistakes. The owners have made full as many and are responsible for some of the mistakes made by the masters. The owners would have more respect for and confidence in men, who in lodge will freely and fearlessly express their own opinions upon matters and things relative to the operation of ships. Argument often brings out points of interest and often results in changes bettering conditions for owners and masters and all parties interested.

This year the owners have arranged to carry five (5) per cent of all insurance placed upon their ships, and they request you as masters to observe certain "don'ts"—eleven in number, all of which with the exception of the eleventh, seem to be perfectly proper. The eleventh carries an insinuation entirely uncalled for and is the kind of matter that causes the fear of masters, which I have already mentioned. There is some "don'ts" that the owners might observe,

which would assist the masters materially in complying with their wishes. Don't forget that it is far more important to have the best equipment of devices for the use of the masters, and necessary for the safe navigation of the ships, than the fitting up of luxurious apartments for the traveling public.

Don't forget to have your pilot houses so constructed as to obviate the necessity of over-loading your compasses with magnets to correct local errors.

Don't forget that some of the disasters upon the Lakes can be laid to poor compasses, and which seem to be in pretty general use.

Don't forget that there is two separate and distinct systems of steering, one known as the "straight" and the other the "cross chain" system, for which the owners are responsible.

Don't forget that your ship needs a modern sounding device.

Don't forget that your ships will draw the same amount of water this year as they did last, if they carry the same amount of ore.

Don't forget that a master needs some sleep to enable him to keep in condition to properly keep track of his ship, and that an unnecessary amount of clerical work, letter writing and reports, while the ship is upon a voyage, tends to increase the risk of disaster.

Don't forget the master has more heart to work and is likely to obtain better results, when he feels that he has the respect and confidence of his owner.

### A FRIEND

Is like a ship, when with music and song,
The tide of good fortune wafts him along—
But how is it when tempest hath left him a wreck,
And many mean billows have battered his deck?
Give me the heart that true sympathy shows,
And clings to a messmate whatever wind blows.

To the masters I would say the Grand Lodge Sessions should all be held in the City of Washington. You should not go there for the sole purpose of auditing the books and making changes in your constitution and by-laws, but you should go there in the interest of the owner and the master. The Engineers, Sailors and other organizations have representatives there the year round. You should become acquainted with members of the House and Senate, the Supervising Board, the Light House Board.—See that the Supervising Board is composed of as many masters as engineers; keep track of all legislation relative to ships and navigation, opposing all unwise legislation and stamping with your approval all just and

proper legislation. No delegation carries more weight before committees of the Senate and House than practical shipmasters. Men who know what rules and regulations governing the navigation of ships is best for the owners, underwriters and masters.

One purpose of the Association is to provide a fund, which shall be immediately available for the use of the widow and the orphan upon the decease of a member.

No insurance company has furnished cheaper insurance, and very few Insurance Companies have paid as promptly. I trust that the conditions which have existed for years past, will continue to exist and that the Benefit Fund will always have an amount on hand sufficient to care for the widow and the orphan.

To the Grand Lodge and all Members of the Association I desire to convey my appreciation of courtesies extended and say that should an all-wise Providence permit, I will be present at the next Session of the Grand Lodge.

Fraternally yours,

C. E. BENHAM, Senior Past Grand President.

### SIGNALS-DECK AND ENGINE ROOM.

Rules and regulations of the United States steamboat inspection service relating to starting, stopping and backing signals for the great lakes provide that there shall be used between the master or pilot and engineer the following code of signals, to be made by bell or whistle namely:

1	whistle of	or 1 1	oell	 ahead.
1	whistle	or 1	bell	 Stop.
2	whistles	or 2	bells	 . Back.
3	whistles	or 3	bells	 Check.
4	whistles	or 4	bells	 Strong.
4	whistles	or 4	bells	 right.

Two whistles or two bells shall always mean back, irrespective of other signals previously given.

### GREAT LIGHTHOUSE ESTABLISHMENT.

With each succeeding year the reports of the United States Light-house Board, which is part of the department of commerce and labor, show the greatness of this institution. Its scope is greater than that of any similar body in the world. On June 30,

1908, there were under control of this establishment, 11,217 aids to navigation, divided as follows:  Lighthouses, beacon lights and post lights
Total
•
In the construction, care and maintenance of these aids to navi-
gation there are employed: Steam tenders
Light keepers
Officers and crews of light ships and tenders, about 1,770
Laborers in charge of post lights, about
Laborers and mechanics under lighthouse engineers, about 400
As showing exactly the expenditure involved in maintenance
it may be noted that for the present fiscal year, to end June 30, 1909,
the appropriations from congress aggregate \$4,412,000. The items
involved in maintenance are:
1909. 1910.
Supplies to lighthouses
Repairs and incidental expenses to lighthouses. 950,000
Salaries of keepers of lighthouses 1,160,000 1,250,000
Expenses of light vessels
Expenses of buoyage 90.000 926,000
Expenses of buoyage
Expenses of buoyage
Expenses of buoyage       9°0.000       926,000         Expenses of fog signals       280 000       290,000         Lighting of rivers       375,000       375,000         Survey lighthouse sites       1.000       1,000
Expenses of buoyage       9°0.000       926,000         Expenses of fog signals       280 000       290,000         Lighting of rivers       375,000       375,000         Survey lighthouse sites       1.000       1,000         Oil houses for light stations       10,000       10,000
Expenses of buoyage       9°0.000       926,000         Expenses of fog signals       280 000       290,000         Lighting of rivers       375,000       375,000         Survey lighthouse sites       1.000       1,000

### LIFE-SAVING STATIONS ON THE LAKES.

### LAKE ONTARIO.

Big Sandy—North side mouth of Big Sandy creek. Oswego—East side entrance of Oswego harbor. Charlotte—East side entrance of Charlotte harbor. Niagara—East side entrance of Niagara river.

### LAKE ERIE.

Buffalo—South side entrance of Buffalo harbor. Erie—North side entrance of Erie harbor. Ashtabula—West side of Ashtabula harbor. Fairport—West side entrance of Fairport harbor. Cleveland—West side entrance of Cleveland harbor. Marblehead—Point Marblehead, near quarry docks.

### LAKE HURON.

Lake View Beach—Five miles north of Ft. Gratiot light. Harbor Beach—Inside Harbor Beach harbor. Point aux Barques—Near lighthouse. Port Austin—About 2 miles northeast of Port Austin and about 2 miles southeast of Port Austin reef light. Tawas—Near lighthouse. Sturgeon point—Near lighthouse. Sturgeon point—Near lighthouse. Thunder Bay island—West side of island. Middle island—North end of the island. Hammond—Hammond's bay. Bois Blanc—About midway east side of island.

### LAKE SUPERIOR.

Vermilion—Ten miles west of Whitefish point.
Crisps—Eighteen miles west of Whitefish point.
Two Heart river—Near mouth of Two Heart river.
Deer Park—Near mouth of Sucker river.
Grand Marais, Mich.—West of harbor entrance.
Marquette—Near lighthouse.
Portage—Old Portage Lake ship canal, ¾ mile from north end, on east bank.
Duluth—On Minnesota point, upper Duluth.

### LAKE MICHIGAN.

Beaver island-Near lighthouse. Charlevoix-South side of harbor entrance. North Manitou island-Near Pickards wharf. South Manitou island-Near lighthouse. Sleeping Bear point-Near Glen Haven. Point Betsie-Near lighthouse. Frankfort-South side entrance of harbor. Manistee-North side entrance of harbor. Grande Pointe au Sable-One mile south of light. Ludington-North side entrance of harbor. Pentwater-North side entrance of harbor. White river-North side entrance of White Lake. Muskegon-South side entrance of harbor, Port Sherman. Grand Haven-North side entrance of harbor. Holland-In the harbor, south side. South Haven-North side entrance of harbor

Saint Joseph-In the harbor, north side. Michigan City-East side entrance of harbor. South Chicago-North side entrance of Calumet harbor. Jackson Park—About 7 miles S. by E. of Chicago river light. Old Chicago—In the harbor. Evanston-On the Northwestern University grounds. Kenosha—In the harbor, on Washington island. Racine-In the harbor, adjoining light. Milwaukee-Near entrance of harbor, south side. Sheboygan—Entrance to harbor, north side. Two Rivers—North side entrance of harbor. Kewaunee-North side entrance of harbor. Sturgeon Bay canal—Eastern entrance of canal, north side. Baileys Harbor-On easterly side of harbor. Plum island—Near northeast point of island, 2 miles northwest of Pilot island light.

### DISTRIBUTION OF CARGO IN ORE CARRIERS ON THE LAKES.

By Robert Logan, General Manager American Ship Building Co.

During the past 15 years or so the size of lake vessels engaged in the ore or bulk freight trade has increased enormously, from some 3,000 tons to 13,000 tons carrying capacity, and from 300 to 600 ft. in length, involving many new features in type and construction, and making the question of the distribution of the load to be one of the very greatest importance, and one worthy of the most serious investigation. This is particularly so in the longer class of vessels, for the shorter vessel has naturally proportionately greater stiffness to resist distortion of form under the influence of loading, and because the stress arising from variation in the load fore and aft acts at so much shorter leverage.

The stresses producing strain on the hull resulting from the distribution of the load lengthwise of the vessel are the most severe to which the vessel is subjected, and iron ore being the principal cargo carried on the lakes, and the one which permits of all the greatest variation in distribution, it will be sufficient that the consideration of this subject be confined to the distribution of a cargo of iron ore in a fore and aft direction in a steel lake vessel.

### Least Strain on the Hull.

I think it will be conceded generally that the best distribution of the cargo load is the one that will cause the least amount of strain in the hull when the vessel is afloat in still water, for all such initial strains in the hull are just so much added to the strains that necessarily take place when the vessel is under the action of waves, consequently they ought to be avoided as far as possible. When a ship is floating at rest in still water the weight of the ship and the load therein is equal to the weight of the volume of water displaced, and in order that there may be equilibrium the center of gravity of the ship must coincide with the center of buoyancy of the water, but while the aggregate weights are equal, the component parts in the hull that go to make up the aggregate are not so arranged that at every point in the length of the hull of the ship the weight at that point is supported and balanced by an equal weight of water, if that were the case there would be perfect equilibrium and there would be no stress or straining action whatever, just as if the ship rested in a solid cradle.

At certain portions of the length the buoyancy or upward pressure is in excess of the weight or downward pressure at that place, and in all other portions of the length the conditions are reversed, the weight being in excess of the buoyancy, but, as already stated, the sum total of each are equal and opposite and balance each other.

The result of this unequal distribution of weight and buoyancy over the length of the ship is that sheering stresses are set up in the hull, having a tendency to separate the parts at the points where the excesses change from weight to buoyancy, so that if the various parts of the hull were free to separate the parts having excess of buoyancy would float lighter and those having excess weight would sink deeper in the water, each part seeking its own equilibrium, but as they are not free to separate the materials forming the hull have to take and resist the strain thus caused.

### Natural Tendency to Sag.

All modern lake vessels built to carry coarse freight in bulk, with the machinery aft, the accommodations in forecastle, have when loaded equally between those two points, or throughout the waist of the ship, a natural tendency to sag; in other words to draw more water amidships than at the ends, due to the fact that there is an excess of buoyancy over weight at both bow and stern, and particularly at the bow where there is a long empty space, which practically has no extra weight except that due to the windlass, chains and anchors, and throughout the cargo space there is an excess of weight over buoyancy, resulting in an upward pressure at each end of the ship and a downward pressure amidships, all tending to distort the form of the vessel by sagging and causing straining of the hull materials, the lower parts being put into tension and the top sides and deck stringer into compression, then when the vessel is unloaded the opposite conditions take place, there

being an excess of buoyancy over weight amidships, the upper works are in tension and the bottom in compression. This continued reversal in the direction of the straining forces on the hull is a very severe test on the rivets and on the calking, not only because of the direct action of the tension and compression stresses but also because of the action of the forces arising from the sagging of the hull which tend to distort the form of the vessel or to alter the relations of depth and beam, the effects from the latter cause are most noticeable at the bilges because of the bellows-like action that takes place.

### The Distribution of Load.

For purposes of illustration, I have taken two types of boats only, one 580 ft. long with 12-ft. center hatches, and 450 ft. long with 24-ft. center hatches, as being typical of lake craft engaged in the ore trade, as in similar vessels the distribution of the ore fore and aft will vary in the same proportion to the total load as is shown by the diagrams for the two types described, or to put it into figures, about 36 per cent of the load should be located in the forward third of the cargo hold, about 30 per cent in the midship third of the hold, and about 34 per cent in the after third of the hold, and this distribution will be found to give the minimum amount of strain on the hull, and at the same time give the vessel her proper sailing trim, 3 to 6 in. by the stern at the loading port.

In the case where there is an unusual space between the hatches, as for instance, in some boats with 24 ft. center hatches, two of the hatches may be 36 ft. apart centers; and in other 12 ft. centers, there is often one hatch omitted, making two of them 24 ft. centers, the load that would otherwise go into this space should be distributed in the two adjacent hatches so as to center it as nearly as possible where it belongs.

A point in connection with the 12 ft. center hatch boats is the fact that it is not necessary to load each hatch with its allotted number of tons so long as the sum total in two adjoining hatches is correct, for with this close spacing of hatches, when the ore is first loaded into alternate hatches it will run and meet together under the hatch between the alternate, probably to a depth of from 4 to 6 ft., with the result that there may be only half the amount of ore that was put into the alternate hatches need be put into this intermediate hatch, as it is, already has had the other half from the hatch on either side of it.

### Similar Treatment for Tow Barges.

In the case of tow barges of the usual form the loading ought to be similar to that given for steamers, the heaviest weights at the two ends, but in the case of whalebacks, either steamboats or tow barges, that have their model very much cut away forward with a consequent loss of buoyancy at that point, the proportions for the distribution of the load should be about 34 per cent of the total in the forward third of the whole space, 31 per cent in the midship third and 35 per cent in the after third; in all other respects the whalebacks are working under the same conditions as other vessels.

In giving these figures in regard to loading I may say that they have not been arrived at by opinion or arbitrarily, but by calculation from rules and formulae that have been proved correct by investigation and actual experiment, and in submitting them to you I fully appreciate the fact that owing to varying circumstances at the ore docks it is hardly ever possible to meet this distribution exactly, but if it is approximately as nearly as possible the hull will then, as far as unnecessary strains are concerned, be in the best condition that can be looked for.

### Sailing in Light Condition.

When sailing light or without cargo another condition is met with and one entirely pecular to lake vessels propelled by steam. When good weather prevails all that is aimed for under these circumstances is to get the propeller wheel under water and if the weight of the machinery, boilers and fuel all in the after end are not sufficient for this, enough water is run into the after tanks until the boat may be drawing from 14 to 15 ft, aft and nothing at all forward, giving the draught of 7 to 71/2 ft. amidships, and in this condition the vessel is subjected to a hogging strain, having an upward pressure at each end due to their weights not being entirely supported by the water. This condition is not very severe on the ship in calm weather, but in any kind of sea strains may be extremely severe and even dangerous. It may also be greatly aggravated by a wrong manipulation of the water ballast when it is desired to sink the bow. This ought always to be done by flooding the ballast compartments from aft to forward until the desired draught forward and aft has been obtained and never by floating the ends and leaving the midship compartments empty.

There are no other points I can think of to take up with you in connection with the loading of lake vessels further than to say that it is not my purpose in advocating a correct distribution of the load to suggest that our lake vessels need any greater care taken in the handling than does any other structure built of steel or other materials, but I do wish to ask your attention to the fact that wrong treatment or abuse can be the cause or destruction in part or in whole of anything there is, and particularly to engineering structures of this class.

### CANALS FROM LAKES TO ATLANTIC.

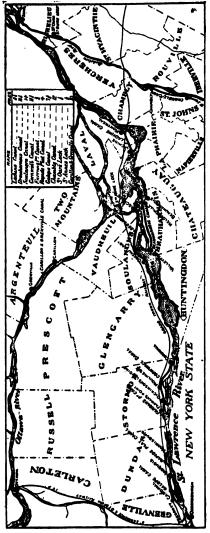
The Canadian canals, which have made it possible for a vessel drawing 14 ft. of water to reach the Atlantic from the lakes, are as follows, beginning down the St. Lawrence river: Lachine canal, 81/2 miles; Soulanges canal, 14 miles; Cornwall canal, 11 miles; Farran's Point canal, 1 mile; Rapide plat canal, 3 2-8 miles; Galops canal, 7 1-3 miles; Welland canal, 2634 miles; total 72 2-8 miles. The River St. Lawrence with the system of canals established on its course above Montreal, and the lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles. From the straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal the distance is 986 miles. From Quebec to Montreal the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from 10 to 12 ft. were formerly barred from passage for the greater part of the season of navigation. In 1826 the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 ft. 6 in. By the year 1869 this depth had been increased to 20 ft., by 1882 to 25 ft., and by the close of 1888 the depth of 271/2 ft. at low water was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888 assumed the indebtedness incurred. The channel has a minimum width of 300 ft., extending to 550 ft. at points of curvature. It is lighted and buoyed.

Montreal has by this work been placed at the head of ocean navigation and here the canal systems of the river St. Lawrence begin, overcoming the various rapids by which the river channel upward is obstructed, and giving access, through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie canal to the head of Lake Superior. The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases and Lake Superior is about 600 ft. The total lockage (or height directly overcome by locks) from tide water to. Lake Superior is 551 ft. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior, is forty-seven.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length 270 ft., width 45 ft., depth of water on sills 14 ft. The length of the vessels to be accommodated is limited to 256 ft. At Farran's point in the canal of that name the lock is 800 ft. long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

Leading particulars of the Lachine canal are as follows: Length,

## CANADA'S ST. LAWRENCE ROUTE CANALS.



MAP SHOWING THE CANALS ON THE MONTREAL, OTTAWA AND RICHELIEU RIVERS INCLUDING THE NEW SOULANGES CANAL, AND TABLE OF DISTANCES

Soulanges and 270 feet in length and 45 feet the number of locks is fifty-three and the Colborne on Lake Erie to Port Dalbousie on Lake Ontario, is not shown in the illustration. None of the extends from Welland 10 exclusive Cornwall, scheme of canal enlargement now completed affected all the canals. which 3 inches. canals, Point, depth and none had the desired dimensions of the Soulanges canal the desired and Rapide Plat, Farran's of 14 feet navigation, Dominion is 533 feet miles; locks) there Galops. (or height directly overcome by Is 701/2 several years past been With the completion of Their aggregate length are the Welland, and the required which has for width. Lachine. had the harnois. ockage general

8½ statute miles; number of locks, five; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 45 ft.; depth of water on sills at two locks, 18 ft., and at three locks, 14 ft.; average width of new canal, 150 ft. The old lift locks, 200 ft. by 45 ft., are still available with 9 ft. of water on mitre sills. The depth of the canal between locks is now adapted to vessels of 14 ft. draught. The canal consists of one channel, with two distinct system of locks, the old and the enlarged. There are two lock entrances at each end. The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of a series of rapids which bars the ascent of the river St. Lawrence.

Dimensions of the Soulanges canal are: Length of canal, 14 miles; number of locks, lift four, guard one; dimensions of locks, 280 ft. by 45 ft.; total rise on lockage, 84 ft.; depth of water on sills, 15 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft.; number of arc lights, 219 of 2,000 candle power each. The canal extends from Cascade point to Coteau landing, overcoming the Cascade rapids, Cedar rapids and Coteau rapids.

Dimensions of the Cornwall canal are: Length of canal, 11 miles; number of locks, 6; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 48 ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft. The old lift locks, 200 ft. by 45 ft., are also available with 9 ft. of water on mitre sills. From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis of 8234 miles, which is being made navigable for vessels drawing 14 ft. The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickenson's landing.

The Farran's point, Rapide plat and Galops canals are collectively known as the Williamsburg canals. Dimensions of the Farran's point canal are: Length of canal, one mile; number of locks, one; new lock, 800 ft. by 45 ft.; old lock, 200 ft. by 45 ft.; total rise or lockage, 3½ ft.; depth of water on sills of new lock at ordinary water level, 14 ft.; depth of water on sills of old lock at ordinary water level, 9 ft.; breadth of canal at bottom, 90 ft.; breadth of canal at water surface, 154 ft. From the head of Cornwall canal to the foot of Farran's point canal the distance on the St. Lawrence river is 5 miles. The latter canal enables vessels ascending the river to avoid the Farran's point rapids passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

Particulars of the Rapide plat canal are as follows: Length of canal, 3 2-3 miles; number of locks, two; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 11½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 152 ft. The old lift lock, 200 ft. by 45 ft., is also available with 9 ft. of water on mitre sills. From the head of Farran's point canal to the foot of Rapide plat canal there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

Dimensions of the Galops canal are: Length of canal, 71/2 miles;

number of locks, three; dimensions of locks (two), 270 ft. by 45 ft., (one) 800 ft. by 45 ft.; total rise or lockage, 15½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 144 ft. From the head of Rapide plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. This canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

Dimensions of the Murray canal (extending through the Isthmus of Murray, giving connection westward between the head waters of the bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation), are: Length between eastern and western pierheads, 5½ miles; breadth at bottom, 80 ft.; breadth at water surface, 120 ft.; depth below lowest known lake level, 11 ft.; no locks.

The Welland canal is too well known to require extended description. Its main line runs from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie. The Welland canal has two entrances from Lake Ontario at Port Dalhousie, one for the old and the other for the new canal. From Port Dalhousie to Allanburgh, 11¾ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line. From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

It is but just to state that considering its population and resources Canada has done vastly more for its waterways than has the United States. The sum of \$75,000,000 is mentioned as a conservative estimate of the money which the Dominion government spent in its canals before a dollar's worth of commerce could adequately utilize them. No commercial enterprise in the world can tell a similar story of faith and confidence in itself. The placing of 14 ft. as the maximum depth for the canals seems strange in the light of today; but it must be remembered that when the system of canals was designed it was supposed that a 14-ft. waterway would be ample for all time upon the great lakes. The depth which at that time vessel men were looking forward to upon the lakes was a uniform one of 12 ft. The great steel carrier was not even a dream then of the most daring of minds.

### AZIMUTHS—A Correction of Compass Courses.

(Contributed by Mr. Arthur Dovale, nautical expert, Cleveland.)

The United States hydrographic office recommends the use of the azimuth tables to ascertain the error of the compass as a handy method and one that will assist in relieving the masters of vessels of great responsibility. The only book absolutely necessary for working azimuths are the "Azimuth Tables" (H. O. No. 106, price 50 cents). It is also necessary to have the equation of time and the declination, which can be

found in the weekly "Notices to Mariners." These notices are distributed free of charge by the branch hydrographic offices. Better than these notices, however, for working azimuths is a copy of "The Sun's Apparent Declination and Equation of Time" (H. O. No. 118, price 10 cents), as it is good for a whole year, and also has tables for reducing standard time to local mean time. The following examples will cover all cases required on the great lakes:

### EXAMPLE NO. 1.

We will say that we are off Duluth on August 4, 1901, in latitude 46° 45′ N., longitude 92° 7′ W., variation 8° Ely. (The foregoing can all be found from a chart). Ship heading E. x N. We then take the bearing of the sun (by the same compass as we took the ship's heading) to be N. 78° 30′ E. and note the exact time by watch, set at say 90th meridian (central standard) time and find it to be 7h. 38m., a, m.

```
7h 38m 00s (90th meridian)
Time of observation
                                28 (from table III, H. O. No. 118)
Correction for longitude
                        -- 8
                        7
                           29
                                32
Local mean time
Equation of time
                           5
                                55
                                    (from table I. H. O. No. 118)
                        7 23
                                37
Local apparent time
```

From table I. (H. O. No. 118) we find that the sun's declination for August 4 is N. 17°+, which is of the same name as our latitude, therefore, we look for latitude 47° (as 46° 45' is nearer 47° than 46°) and find it on page 107 (H. O. No. 106); then under the column marked 17° and opposite 7h 30m, we find the sun's true bearing

```
=N. 94° 25'E., and opposite 7h 20m, we find the sun's true bearing =N. 92° 32 E.
                                  1° 53'=60'+53'=113'
Difference for 10 minutes
                            =
Difference for 1 minute
                                                   11.3'
Difference for 3½ minutes =
                                 11.3' \times 3.5' = 40'
Sun's true bearing for 7h 20m
                                  =N.92^{\circ}32'E.
Correction for 8½ minutes
                                  =+
                                          40
Sun's true bearing for 7h 23m 37s = N. 93 12 E.
Variation
                                 =- 8
                                             Ely. (See note "A")
                                  =N. 85 12 E.
Sun's magnetic bearing
Sun's compass bearing
                                  =N. 78 30 E.
Deviation for E.xN. course
                                        6° 42'Ely. (See note "B"
                                  =
```

Note "A"—Since the magnetic north is 8° east of the true north, the sun's magnetic bearing must be 8° less than its true bearing.

Note "B"—Since there are a less number of degrees and minutes from the sun's bearing to the compass north than from the sun's bearing to the magnetic north, the compass north must be to the east of the magnetic north; hence the easterly deviation. Had the compass bearing of the sun been N. 92° 18′ E. then the compass north would have been 7° 06′ W. of the magnetic north and we would have had 7° 06′ W. deviation.

### EXAMPLE NO. 2.

Off Cleveland, O., Dec. 31, 1901. Latitude, 41° 30' N., longtitude, 81° 40' W., variation, 2° 11' Wly. Ship heading, S. S. W.; sun's bearing, N. 129° 36' W.; time, 3h. 20m. p. m. (90th meridian). Time of observation.3h 20 00s p.m. Cor. for long.....+ 33 (from table III, H. O. No. 118) 20 L. M. T. ...........3 20 57 (from table I, H. O. No. 118) Eq. of time ..... L. A. T. .....3h 50m 23s From table I, (H. O. No. 118) we find that the sun's declination for Dec. 31 is S. 23°+, which is of opposite name to our latitude; therefore, we look on page 179, or 180, of H. O. No. 106, and in the column marked 23°+ at the top. and opposite 3h 50m, we find S. T. B.=N. 128° 35'W. 4h 00m, we find S. T. B.=N. 126° 49'W. 1° 46' Diff. for 10 minutes =60'+46'=106'Diff. for 1 minute 10.6

Diff. for 23 sec., or 2-5 minutes=10.6x2-5=4' so that we have, S. T. B. for 3h 50m=N. 128° 35'W.

=N. 128° 81'W.

Cor. for 23s

S. T. B. for 3h 50m 23s

Variation (see Note A) 2 11 Wly. =N. 126° 20'W. Sun's mag. bearing Sun's comp. bearing  $=N.129^{\circ} 36'W.$ 8° 16'Ely. Dev. for course S. S. W.

Note "A"-Since the magnetic north is 2° 11' west of the true north, the sun's magnetic bearing must be 2° 11' less than its true bearing.

Note "B"-Since there are a greater number of degrees and minutes from the sun to the compass north, than from the sun to the magnetic north, we have easterly deviation.

### CONVERSION OF GEOGRAPHICAL OR STATUTE MILES INTO NAUTICAL OR SEA MILES.

Statute Mile, 5,280 ft.; Nautical Mile, 6,080 ft.

(Prepared by Capt. Henry Leisk, Milwaukee.)

Geographical or statute mile.	Nautical or	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or
1.00 1.25 1.50 1.75 2.25 2.75 3.00 2.25 2.75 3.50 3.75 4.00 4.25 4.50 4.75 5.25 5.70 6.25 6.70 7.25 7.50	0.868 1.085 1.302 1.519 1.736 1.953 2.171 2.388 2.605 2.822 3.039 3.256 3.473 3.690 3.907 4.125 4.342 4.559 4.776 4.993 5.210 5.427 5.644 5.861 6.078 6.296 6.513	8.00 8.25 8.50 9.00 9.25 9.50 9.75 10.50 10.75 11.00 11.75 12.00 12.25 12.50 12.75 13.00 13.25 13.50 13.75 14.00 14.25	6.947 7.164 7.381 7.598 7.815 8.032 8.250 8.467 8.684 8.901 9.118 9.335 9.552 9.769 9.986 10.203 10.421 10.638 10.855 11.072 11.289 11.506 11.723 11.940 12.157 12.375 12.592	15.00 15.25 15.50 15.75 16.00 16.25 16.50 16.75 17.00 17.25 17.50 18.25 18.50 18.75 19.00 19.25 19.50 19.75 20.00 20.25 20.50 20.75 21.00 21.25 21.50	13.026 14.243 13.460 13.677 13.894 14.111 14.828 14.546 14.763 14.980 15.197 15.414 15.631 15.848 16.065 16.282 16.500 16.717 16.934 17.151 17.368 17.585 17.802 18.019 18.236 18.453 18.671	22.00 22.25 22.50 22.75 23.00 23.25 23.50 23.75 24.00 24.25 24.75 25.25 25.50 25.25 26.50 26.25 26.75 27.25 27.75 28.00 27.25 27.75 28.00 27.25 27.75 28.00 28.25	29.105 19.322 19.539 19.756 19.978 20.190 20.407 20.625 20.842 21.059 21.276 21.498 21.710 21.927 22.114 22.361 22.361 23.230 23.447 23.881 24.098 24.750
7.75	6.730	14.75	12.809	21.75	18.888	29.00	25.184

### CONVERSION OF NAUTICAL OR SEA MILES INTO GEO-GRAPHICAL OR STATUTE MILES.

Nautical Mile, 6,080 ft.; Statute Mile, 5,280 ft.

(Prepared by Capt. Henry Leisk, Milwaukee.)

		•					
Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or	Geographical or statute mile.
1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 8.25 8.50 8.75 4.50 4.75 5.25 5.50 5.75 6.00 6.25 6.50	1.151 1.439 1.729 2.015 2.803 2.590 2.878 3.166 3.454 3.742 4.230 4.818 4.606 4.893 5.181 5.469 5.757 6.045 6.333 6.621 6.909 7.196 7.184	7.00 7.25 7.50 7.75 8.00 8.25 8.75 9.00 9.25 9.50 10.25 10.50 10.75 11.00 11.25 11.50 11.75 12.00 12.25 12.50	8.060 8.348 8.636 8.924 9.212 9.500 9.787 10.393 10.675 10.939 11.227 11.515 11.803 12.090 12.378 12.090 12.378 12.090 13.342 13.530 18.818 14.106 14.893	13.00 13.25 13.50 14.50 14.25 14.50 15.25 15.50 15.75 16.00 16.25 16.50 16.75 17.00 17.25 17.50 17.75 18.00 18.25 18.50	14.969 15.257 15.545 15.833 16.121 16.409 16.696 16.984 17.272 17.560 17.848 18,136 18.424 18,712 18,999 19.287 19.287 19.287 19.575 19.863 20.151 20.489 20.727 21.015 21.303	19.00 19.25 19.50 19.75 20.00 20.25 20.50 21.75 21.50 21.75 21.50 21.75 22.50 22.75 23.75 23.75 24.00 24.25 24.50	21.878 22.166 22.454 22.742 23.030 23.318 23.606 23.893 24.181 24.469 24.757 25.045 25.833 25.621 25.909 26.196 26.484 26.772 27.060 27.348 27.660 27.924 28.212

### UNITED STATES HYDROGRAPHIC OFFICE.

The United States hydrographic office, navy department, Washington, D. C., maintains branch offices on the great lakes as follows: Buffalo, Guaranty building; Cleveland, The Arcade; Chicago, Masonic Temple;

Sault Ste. Marie, News building; Duluth, Torrey building.

Masters of vessels are invited to call on arrival in port. Nautical charts and sailing directions on hand for inspection by the shipping public. Information affecting nautical charts regularly received. Nautical in-quiries are investigated and answered. "Notices to Mariners," "U. S. Light Lists," and other periodical publications are distributed. Barometers are compared. All services are free.

Captains are earnestly requested to co-operate with the branch hydrographic offices in their work of collecting and distributing information useful to lake mariners, by sending to them reports of buoys adrift, lights or gas buoys not lighted, shoals, wrecks, or any other dangers to

navigation.

### WIND SIGNALS ON LAKE SUPERIOR.

Winds expected for the western end of Lake Superior are announced by whistle signals of the United States weather bureau. Signals are blown daily at 10 a. m. by the whistle of elevator "E," Duluth, Minn. The Imperial Mills, Duluth, Minn., also blow these signals at 10 p. m. during the navigation season, whenever the information then at hand is of special importance to vesselmen.

Force of wind.—Light (1 to 5 miles per hour), 1 long whistle: Fresh (6 to 14 miles per hour), 2 long whistles; brisk (15 to 24 miles per hour), 3 long whistles; high (25 miles and upwards per hour), 4 long whistles; north, northeast, east, I short whistle; southeast south, 2 short whistles; southwest, west, northwest, 3 short whistles; variable 4 short whistles.

Duration of whistles: Short, 2 seconds; long, 6 seconds.

Examples:-For "brisk northwest winds" there is blown first a prolonged "attention" whistle; then three long and three short whistles. For "light northeast shifting to brisk westerly winds" the "attention" whistle is blown first and then one long, one short, three long, three short.

### BRIDGE SIGNALS.

BUFFALO, N. Y.	Whistle Signal
Michigan and Ohio street bridges over Buffalo creek	, South
Michigan street bridge over City Ship (Bla	ckwell)
canal, Ohio basin slip bridge and Evans' slip bri	dge3 blasts
Hamburg turnpike and B. C. R. R. bridges, upper	end of
city ship (Blackwell) canal	3 long, 3 short
International bridge, Niagara river	
Ferry street bridge, Black Rock harbor	3 blasts
International bridge, Black Rock harbor	1 long

### TONAWANDA, N. Y.

IONAWANDA, N. Y.
Tonawanda island bridge and Tonawanda creek bridge3 blasts
ASHTABULA, O. Ashtabula bridge
CLEVELAND, O.
L. S. & M. S. Ry. bridge long 2 short.
Old River Bed bridges
Old River Bed Dridges
Main street bridge
Made street bridge
Superior street viaduct
Valley Ry. bridge and all others above it in the main river4 blasts.
LORAIN, O.
City bridge
City bridge long a short.
N. Y. C. & St. L. Ry. bridge
TOLEDO, O.
All bridges in main river
Dayton slip bridge
Swan Creek—
Perry street bridge
St. Clair street bridge
Erie street bridge 3 long.
Clover Leaf Ry. bridge
DULUTH, MINN.
Interstate bridge
Minnesota draw, Northern Pacific bridge
Wisconsin draw, Northern Pacific bridge
Grassy Point bridge
Lamborn Ave. bridge

### CHICAGO, ILL.

Three whistles is the signal for all bridges in Chicago and South Chicago excepting Chicago & Northwestern bridge at Kinzie street, which is the first bridge after turning the fork to go up the North Branch. For this bridge and the Chicago, Milwaukee & St. Paul bridge at North avenue (when going northward in the North Branch) four whistles are blown. The same signal (four whistles) is also blown for the Ashland avenue bridge in the South Branch when going to the right of the forks to Bridgeport; when turning towards the South Fork, or the left, five whistles are blown for Fuller street bridge.

MILWAUKEE, WIS.

In Milwaukee 3 short whistles is the general bridge signal. There is excepted from this the bridge across the Menominee river at the foot of West Water street, and also the railroad bridge about a half block east of the West Water street bridge, as well as the bridge of the Chicago & Northwestern company across the Kinnickinnic, between Kinnickinnic avenue and Clinton street. For these exceptions the signal is four short blasts. Another exception is the Point street bridge, entrance to Green Bay canal, for which the signal is two short blasts.

### THE COMPASS

• /	PODITS	. "	POINTS.	"	POINTS	. • "	POINTS
0 00	H	45 00	NE	90 00	E + 8 E + 8 E + 8 E + 8	135 00	SE
0 42		45 49	ı <sup>-</sup>	90 42		135 42	_
	BIE	46 94	ME ! É	91 24	BIS	136 24	SB{S
2 07		45 00 45 49 46 94 47 07 47 49 48 31	I	92 07		137 07	
3 49	B † B	47 49	MEIR	92 49	E   8	137 49	SE   8
8 81	·	, 48 31	·	93 31		138 31	•
4 13	'R & B	48 31 49 13	ME   B	94 13	E	139 13	SB # 8
4 55		49 65 50 38	l	94 55		139 55	
0 28	H I B	50 38 51 90	BE   B	96 38	12 <sup>†</sup> S	140 38	PE i S
7 00	NiB	50.00		96 20	70.0	141 20	
7 44		50 44	asta .	97 02	E i S	148 08	85 18
8 92	. WAR	69 00	WW. B	08 00	Pig	149 00	QP 1 Q
9 04	1	54.00		89 69	~ 1 o	144 09	op 1 o
9 61	HIR	54 61	WEIR	99 61	Ris	144 61	SRIS
10 33	, — <b>: —</b>	: 55 33		100 83	, - : -	145 33	-2 ; 0
11 16	N x B	56 15	NEXE	101 15	ExS	146 15	SE×S
11 67		56 57		101 57		146 57	
12 39	n:B n:E n:E nxE	67 39	NEXELE	102 39	ESE ; E	147 39	88E ; E
13 22	•	58 22		103 22	-	148 22	
14 46	NXE;E NXE;E NXE;E	59 <del>4</del> 6	·	104 46	·	149 46	
15 28	N X E ! E	60 28	AB X B t B	. 100 %9	BBB # B	100 26	SSE ; E
16 10	NXE;E NXE;E NXE;E NE NE NE;E	61 10		108 10	mam . m	151 10	
12 93	BXE FR	61 93	BEXRIB	106 93	ESE ! E	101 03	SSEE
17 30	' W W . T	. 62 35		107 35	B0D - 19	102 30	90B . T
10 17	D X D ; K	89 EA	MEXE!	100 17	A05 \$ 5	100 17	OOE E
10 41	TVELP	93 09	ME-E'D	100 09	POP I P	154 41	SSE I P
50 83		86 98	x-1p	: 110 23	t a	155 22	- Car
21 08	MxB:P	66 04	MRYRIE	111 06	RSB + R	156 06	SSE ! E
21 48		: 66 48		111 48		156 48	; 2
22 30	MME	67 30	RMB	112 30	RSE	157 30	SSE
23 12		68 12	:	113 12		158 12	
23 54	MME ! E	68 54	ENE ; E	113 54	SEXELE	158 54	8 x E ; E
24 87		69 37		114 37	SEXELE	159 37	
25 19	nne † e	70 19	RNE † E	. 115 19	. SEXE ! E	160 19	SXEIE
26 01		71 01	EME ! E	116 01		161 01	
26 43	nne † B	71 43		116 43	SE x E ; E	161 49	8 x E ; E
27 25 28 08		78 86		117 25	QP - P : P	162 00	8 - E 1 P
28 50	nne <sub>i</sub> e	73 96		118 60	SE x E + E	183 60	gigin
	NNE ; E	74 39	ene i e	119 30	SRYRIE	164 32	SYRIR
30 14		75 14		120 14	SE x E ; E	165 14	, 1
	NNE : B	75 56	ENE + E	120 56	SEXEIE	165 56	8 x E + E
31 38		76 38		; 121 38	SE x E ; E SE x E ; E SE x E ; E SE ; E SE ; E SE ; E	166 38	
	NNE ; E	77 21	ENE : E	122 21	SEXELE	167 21	8 x E į E
33 03	-	78 03		123 03		168 03	`
	ME x N	78 45	ExB	123 45	SE x E	168 46	8 x E
34 27		79 27		124 27		169 27	
	ne i n	80 09	e i n	125 09	SE E	170 09	9 ! E
85 52	WD . W	80 52	19 t 14'	120 62	97.7	170 52	P
36 34 37 16	ne i n	80 10	D † D	120 34	op 1 p	170 12	0 1 P
	NE ; N	82 60	R.W	197 50	SR A R	172 59	8 . E
38 40		83 40	~ ; ~	128 40	SE LE	173 40	- ;
	NB   N	84 23	BIN	129 23	SE I E	174 23	SIE
40 05		. 05 05		130 05	,,-	175 05	
40 47	MEIN	85 47	e ; n	130 47	SE ; E	175 47	8 i E
	•	86 29					
42 11	ne i n	87 11	E ! N	132 11	8E   E	177 11	8 ! E
42 53	. ne † n	87 53	•	132 53		177 53	
43 36	'NE   N	88 36	e i n	133 36	SE į E	178 36	8

• '	POINTS	• 4	POINTS		POINTS	• •	POINTS
180 00	8	225 00	sw	270 00	w	315 00	NW
180 42	1	225 42		270 42		315 42	
181 24	8 į W	226 24	sw į w	271 24	WiN	316 24	NWIN
182 07	1	227 07	l	272 07	l i	317 07	
182 49	s į w	227 49	sw t w	272 49	M † N	317 49	NATN
183 31 184 13	0 . 117	228 31 229 13	0777 - 777	278 31 274 13	TT . M	318 31 319 13	*****
184 55	s į w	229 55	sw į w	274 55	WIN	319 55	NW : N
185 38	s į w	230 88	sw . w	275 38	WIN	320 38	NW + N
186 20	24.44	231 20	511 7 11	276 20	44 1 74	321 20	TA AA TA
187 02	s w	232 02	SW # W	277 02	WiN	322 02	NW & N
187 44		232 44		277 44		322 44	
188 26	8 } W	233 26	SW # W	278 26	WIN	323 26	NWIN
189 08	·	234 08		279 08		324 08	
189 51	, s ; w	234 51	sw į w	279 51	WIN	324 51	NWIN
190 33		235 33		280 33		325 33	
191 15	8 x W	236 15	SW × W	281 15	W × N	326 15	NW×N
191 57 192 39	9 - 107   107	236 67 237 39	977 - 777   777	281 57	WWW 7 TE	326 57 327 39	MARKET : 187
193 22	8×W ł W	237 39	sw×w tw	282 39 283 22	wnw ; w	327 39 328 22	NNW ; W
194 04	8 x W + W	239 04	sw×w + w	284 04	WNW + W	329 04	NNW 2 W
194 46	2 / 44 / 44	239 46	Payata	284 46	. 42444 1 44	329 46	www.1 a
195 28	8×W#W	240 28	8W×W #W	285 28	WNWAW	330 28	NNWAW
196 10		241 10		286 10		331 10	72.11,8 11
196 58	8 x W + W	241 53	8W×W I W	286 53	wnw w	331 53	NNW + W
197 35		242 35	-	287 85		332 35	
198 17	8 x W # W	243 17	SW×W W	288 17	WNW & W	333 17	NNW : W
198 59		243 59		288 59		333 59	·
199 41	8×W W	244 41	SW×WłW	289 41	WNW ! W	334 41	NNW ‡ W
200 23	l	245 23		290 23		335 23	
801 06	8 × W ‡ W	246 06	sw×w;w	291 06	WWWW W	336 06	NNW ! W
201 48	00777	246 48	****	291 48	*******	336 48 337 30	*******
202 30 203 12	ssw	247 30 248 12	wsw	292 30 293 12	WNW	337 30 338 12	NNW
203 54	ssw <sub>i</sub> w	248 54	wsw + w	293 54	NW×WiW	338 54	N×WIV
204 37	DD W g W	249 37	MDM 8 M	294 37	74 44 7 44 8 44	339 37	74 7 44 8 4
205 19	88W ± W	250 19	wsw + w	295 19	NW×WiW	340 19	N×WIV
206 01		251 01		296 01	• • • •	841 01	-
206 43	ssw # w	251 43	wsw # w	296 43	NW×WaW	841 43	N×WAW
207 25		252 25	· ·	297 25		342 25	
80 809	ssw į w	253 08	wsw w	298 08	NW×W w	343 08	N×Włw
808 50		253 50	l	298 50	l	343 50	
209 32	ssw # w	254 32	wsw # w	299 32	NW×WiW	344 32	N×WIA
210 14 210 56	COW . W	255 14 255 56	TE 0 TE . TE	300 14 300 56	NW×WIW	345 14 345 56	N × W + V
211 38	ssw į w	256 38	wsw ; w	301 38	TAM X M & M	346 38	74 × 24 \$ A
212 21	ssw : w	257 21	wsw ; w	302 21	NW×WIW	847 21	N×WIV
213 03	~~ ***	258 03		303 03		348 03	
213 45	SW x S	258 45	W×8	303 45	NW×W	348 45	N×W
214 27	1	259 27		304 27	]	349 27	
215 09	sw į s	260 09	Wis	305 09	NWIW	350 09	N;W
216 62		260 52		305 52	i	350 52	
216 34	sw a s	261 34	W # 8	306 34	NW & W	351 34	NŧW
217 16		262 16		307 16	NT	352 16	N7 4 TT7
217 58	aw # a	262 58 263 40	Wis	307 58	NW # W	352 58 353 40	Naw
218 40 219 23	sw + s	264 23	w į s	308 40 309 23	NW + W	354 23	NIM
220 05	~ w 4 v	265 05	** 4 2	310 05	74 AK 2 AA	355 05	T
220 47	sw # s	265 47	Wis	310 47	NW W	355 47	NIW
221 29	~ ** # 15	266 29		311 29		356 29	* **
222 11	sw + s	267 11	Wis	312 11	NW + W	357 11	NIW
222 53		267 53	•	312 53		357 53	i -
223 36	sw ; s	268 36	W + S	313 36	NW į WK	358 36	NIW
224 18	1 -	269 18	1 -	314 18	1	359 18	1

TABLE FOR CONVERTING COMPASS COURSES INTO DEGREES, MINUTES AND SECONDS.

(A Favor from Frank Henrich, Nautical Expert, Duluth.)

(A Favoi	tom Flam	יובוונים נו	n, Ivaut	ical Exper	nom framk memich, Inautical Expert, Duntin.)
Points.	Number.	Degrees.	rees.	Number.	Points
		•			
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	*			%	
•	%	5 37		Z	
	%			%	
•	*			*	
. :	%	9 50	0 37	%	
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	%			*	
	74			74	,
	%		8	*	
	72			72	
	%			%	
	*			*	-
!	%		5 37	%	
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	74	30	3 45	74	
	%			*	
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SW SE.	SW. by WSE. by E.	W SWE SE.	W. by SE. by S.	West East.
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NE. NW.	NE. by E NW. by W	E NeW NW	E. by N W. by N	East West

### TABLE OF WAGES.

DAYS	\$15	00	\$20	00	<b>\$2</b> 5	00	<b>\$30</b>	00	\$35	00	<b>\$40</b> .	00	\$45	00	\$50	00	<b>\$</b> 55	00	<b>\$6</b> 0	00	\$65°	00	\$70	00
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DAYS.	\$75 00	\$80 OÒ	\$85 00	\$90 00	\$95.00	\$100 00	\$105 00	\$110 00	\$115 00	\$120 00	\$125 00
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3 2	5 00	5 38	5 67	6 00	6 33	6 67	7 00	7 38	7 67	8 00	8 83
8	7 50	8 00	8 50	9 00	9 50	10 00	10 50	31 00	11 50	12 00	12 50
4 1	10 00	10 67	11 33	12 00	12 67	18 88	14 (10	14 67	15 33	16 00	16 67
9.	12 50	13 83	14 17	15 00	15 88	16 67	17 50	16 83	19 17	20 00	20 83
5	15 00	16 00	17 00	18 00	19 00	20 00	21 00	22 00	23 00	24 00	25 00
5 6 7	17 50 20 00	18 67 21 33	19 83 29 67	21 00 24 00	22 17 25 83	23 33 26 67	24 50	. 25 67 29 83	26 83 80 67	25 00 33 00	29 17 83 83
	23 50	24 00	25 60	27 00	25 83 · 28 50	80 00	28 00 31 50	29 83 83 00	84 50	36 00	87 50
10 -	23 00	26 67		80 00	31 67	83 33	85 00	36 67	38 33	40 00	41 67
ii	27 50	29 83	28 88 31 17	83 00	84 63	86 67	88 50	40 83	48 17	44 00	45 83
13	80 00	32 00	34 00	86 00	38 00	40 00	42 00	44 00	46 00	48 00	50 00
18	82 50	84 67	36 83	89 00	41 17	48 88	45 80	47 67	49 83	52 00	54 17
14	85 00	37 83	39 67	42 00	44 33	46 67	49 00	51 38	58 67	56 00	FAS 83
15	87 50	40 00	42 50	45 00	47 50	50 00	52 50	55 00	57 50	60 00	63 50
16	40 00	42 07	45 33	48 00	51 67	53 88	56 00	58 67	61 83	64 (10)	66 67
17	42 50	45 33	48 17	51 00	54 83	54 67	59 50	62 33	65 17	68 00	70 83
18	45 (10)	48 00	51 00	54 00	58 00	60 00	63 00	66 (10	69 00	72 (10)	75 00
19	47 50	50 67	58 83	57 00	61 17	63 33	66 5G	G9 67	72 83	76 (0)	79 17
20	50 00	5× 88	56 67	60 00	64 83	66 67	70 00	78 38	76 67	80 00	88 38
21	82 50	56 00	59 50	63 00	67 50	70 00	78 50	77 00	80 50	A4 00	87 50
22	55 00	58 67	62 83	66 00	70 67	78 83	77 00	80 67	84 33	H8 00	91 67
22 23 24 25 26	87 50 60 00	61 33	65 17 68 00	69 00 72 00	78 8×1	76 67 80 00	80 50 84 00	84 33 88 00	88 17 92 00	96 00	95 83 100 00
24	62 50	66 67	70 83	75 00	79 17	83 88	87 50	88 00 91 67	95 88	100 00	104 17
20	65 00	69 83	73 67	78 00	82 83	86 67	91 00	95 83	99 67	104 00	106 88
<b>37</b>	67 50	72 00	76 50	81 00	P5 50	90 00	94 50	99.00	103 50	108 00	112 50
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29	72 50	27 ×3	82 17	87 00	91 83	96 67	101 50	106 33	111 17	116 00	120 83
ac	75 00	80 00	85 00	90 00	92 0	100 02	105 00	110 00	115 0	120 00	125 00

STRENGTH OF CHAIN CABLE AS TESTED IN 15-FATHOM LENGTHS.

(From Cat T. A. Ellery, Marysville, Mich.)

			Breaking Strain in Tons.	ain in Tons.	
Size	Required Testing Strain in Tons.	Weight of 100 Fathoms in Pounds.	Maximum.	Minimum.	Mean Strain, Tons.
21/4	%10	27,216	130.3	121.8	125.9
21%	811/4	24,276	116.2	108.6	112.3
· 01	72	21,504	103.0	96.3	99.5
1%	631%	18,900	0.00	88	95.8
1%	551%	16,464	85.3	65.0	74.1
15%	471/2	14.196	75.0	59.5	96.5
172	401/2	12,096	65.5	54.5	29.5
1%	34	10,164	53.6	44.4	48.5
177	281/2	8,400	45:8	35.3	38.5
12%	2234	6,804	33.0	27.0	20.2
1	81	5,376	27.3	22.0	24.3
%	1334	4,116	22.5	20.3	21.1
**	10%	3,024	15.0	12.5	13.5
11-16	81%	2,541	12.3	10.8	11.4
%		2,100	6.6	9.4	9.5
9-16	51%	1,701	:	:	:
7%	4%	1,344	6.3	5.9	0.0

### DRY DOCKS OF THE GREAT LAKES—DIMENSIONS, DRAUGHT OF WATER, ETC.

(From the 1906 Edition of the Bine Book of American Shipping. Copyrighted.)

WIDTH.	Top. Sill	2 2 81 81 16 55 85 87 65 87 113 87 113 87 112 8	88 15% 555 16 56% 56% 56% 56% 56% 56% 56% 56% 56% 56	48 8 91 16 95 feet 5 feet for d	80   13	_				·		<del></del>		
M	Gate.	2427 2884 2887 2884 3457 3457 3457 3457 3457 3457 3457 345	08458488	77.	8 		31	31	33	31	31	31	31	31
LENGTH.	Over all.	315 478 347 379 126 101	320 320 180 180 247 450 2450 217	387	: 		180	180	180	180	180	180	180	180
LEN	On blocks.	285 372 372		232 368 186 186	9	_	180	180	180	180	180	180	180	180
	NAME OF DOCK	James Davidson Buffalo Dry Dock Co., Dock No. 1 Buffalo Dry Dock Co., Dock No. 3. Buffalo Dry Dock Co., Dock No. 4. Buffalo Dry Dock Co., Dock No. 4. Empire Shibbuilding Co., floating dock Empire Shibbuilding Co., floating dock	Shipowners' Dry Dock Co., No. 1. Shipowners' Dry Dock Co., No. 2. Shipowners' Dry Dock Co., No. 3. Chicago Shipoulding Co. (Calumet). American Shipbuilding Co., Dock No. 1. American Shipbuilding Co., Dock No. 2. American Shipbuilding Co., Dock No. 2. Collingwood Shipbuilding Co., Ltd.	Detroit Shipbuilding Co., Dock No. 1. Detroit Shipbuilding Co., Dock No. 2. Great Lakes Engineering Works Walter H. Oades Marine Ry.	N. Grignon (Floating Dock)		Davis Dry Dock Co.		Davis Dry Dock Co. Kingston Dry Dock	Davis Dry Dock Co Kingston Dry Dock	Davis Dry Dock Co. Kingston Dry Dock	Davis Dry Dock Co. Kingston Dry Dock	Davis Dry Dock Co Kingston Dry Dock	Davis Dry Dock Co. Kingston Dry Dock
•	PLACE.	Bay City, Mich. Buffalo, N. Y.	Chicago, III. Chicago, III. Chicago, III. Chicago, III. Chicago, III. Cleveland, O. Cleveland, O. Cleveland, O. Collingwood, Ont.	Detroit, Mich Detroit, Mich Detroit, Mich Detroit, Mich Detroit, Mich	Duluth, Minn			000	00 11.		Ont.	Out.	Out.	Ont.

13 10 over	13% 12%	===		111	122 ::	٥.	8%fo'd	133 18	20 10 22 22	1435
 40 52		88	50 63%	120 40 62	::::	23	14	52 105	30 30 30 30	100
35	60 % 45	44 6	24 36 48%	36 95.	38 415 415	83	:	\$1% 66%	30 37 30 30	09
340	320	216	300 165 300	300 208 412	236 180 322	130	190	\$14 620	235 100 525 90	435
340	312	200	280 150 275	255 198 385	234 178 223	130	180	475	230 100 500 86	415
Manitowoc Dry Dock Co., graving dock		Marine Wor	St. Lawrence Marine Ry. Co. Geo. Goble, Ontario Dry Dock. Owen Sound Dry Dock & Ship Building Co., Ltd.	Muir Brothers (3 sections) Wolverine Dry Dock, F. J. Smith Port Huron Ship Building Co	G. T. Davie & Sons No. 1. G. T. Davie & Sons No. 2. Ross & Co. A. Russell	Poulint Boat & Power Co	Hickler Bros. marine railway, 1,000 tons capacity	Richoldt, Wolter & Co., four sets of floating dry docks, 100, 150, 170 and 215 ft. length on blocks, respectively Superior Shiphuilding Co., Dock No. 1. Superior Shiphuilding Co., Dock No. 2.	A. Gilmore's Sons. Toledo Marine Rv. (James Scanes, Mngr.). Craig Shipbuilding Co. Medler & Arnot.	James Davidson
Manitowoc, Wis	Milwaukee, Wis   Milwaukee, Wis   Milwaukee, Wis	Montreal, Que	Ogdensburg, N. Y. Oswego, N. Y. Owen Sound, Ont.	Port Dalhousie, Ont. Port Huron, Mich. Port Huron, Mich.	Quebec, Que.	Sandusky, O.	Mich	Sturgeon, Bay, Wis. Superior, Wis.	Toledo, O. Toledo, O. Toledo, O. Toledo, O.	West Bay City, Mich.

### STRENGTH OF PLAIN LAID ROPE OF THREE STRANDS.

(From Capt. T. A. Ellery, Marysville, Mich.)

	1		Breaking st	rain in tons.	
. Size	Number of yarns in rope.	Weight of 100 fathoms in 1bs.	Maximum.	Minimum.	Mean, tons.
12	1173	2,940	45.5	35.	40.2
111/2	1077		41.7	32.	36.8
11	987		38.2	29.3	33.7
101/2	900		34.9	26.7	30.8
10	816	2,136	3 <u>1</u> .7	24.2	27.9
9½	738 660		28.6	21.8	25.2
9	660	1,712	25.7	19.6	22.6
9 8½ 8	591	<b></b>	23.	17.5	20.2
8	522	1,379	20.4	15.5	18.
71/2	459		18.	13.6	15.8
7	399		15.8	11.8	13.8
7 6½	345	<b></b>	13.7	10.2	12.
6	294	834	11.75	8.7	10.3
51/2	249	712	9.8	7.3	8.7
5½ 5	204	l	9.8 8.2	6.1	7.2
41/2	168	413	6.7	5.	5.9
4	132	l	5.3	4.	4.7
31/2	102	l	4.1	3.2	3.7
. 3	75	203	3.1	2.4	2.8
21/2	54	l	2.2	1.8	2.1
2	33	l	1.5	1.3	1.4
	27	l	1.28	1.13	1.23
134	21	l	.90	.86	.88
11/4	15	1	.6o	-53	.56
1	12		.58	.46	.51
			.51	.42	.46
3/4 1/2	9 6		.28	.28	.28

	arativo i ushol, ir			
RATE IN CENTS PER	Corn, flax and rye. 56 pounds per bushel.	Wheat, 60 pounds per bushel.	Barley, 48 pounds per bushel.	Oats, 32 pounds per bushel.
BUSHEL.	EQUIVALE	NT IN IRON	ORE PER GE	OSS TON.
1 11/4	\$0 40 50	\$0 37 <sup>1</sup> / <sub>3</sub> 46 <sup>2</sup> / <sub>3</sub>	\$0 46 <sup>2</sup> / <sub>3</sub> 58 <sup>1</sup> / <sub>3</sub>	\$0 70 87 ½
11/2	60	56	70	1 05
13/4 2	70 80	65 ½3 74 ¾3	81 <sup>2</sup> /3 93 <sup>1</sup> /3	1 22½ 1 40
21/4	90	84	1 05	1 57 1/2
2 1/2	1 00	931/3	1 162/3	1 75
2¾ 3	1 10 1 20	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 28 <sup>1</sup> / <sub>3</sub> 1 40	$\begin{array}{c c} 1 & 92\frac{1}{2} \\ 2 & 10 \end{array}$
31/4	1 30	1 21 1/3		
3 1/2	1 40	1 302/3	1 63 1/3	2 45
33/4	1 50	1 40	1 75	2 62 1/2
4 4 4	1 60 1 70	1 49 ½ 1 58 ½ 3		
41/2	1 80	1 68	2 10	3 15
43/4	1 90	1 77 1/3	2 212/3	3 32 1/2
5 51/	2 00 2 10	1 86 <sup>2</sup> / <sub>3</sub> 1 96	2 33 <sup>1</sup> / <sub>3</sub> 2 45	3 50 3 67½
5 ½ 5 ½	2 20	2 051/3	2 562/3	3 85
534	2 30	2 142/3	2 68 3	4 021/2
6	2 40	2 24	2 80	4 20
Number of bushels per gross ton.	40	37 1/3	463/3	70
Number of gross tons in 1.000 bus.	25	2611	213	143

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### KNOTS OF ALL KINDS.

Bight of a rope.

Simple or overhand knot.

B.C.D.E.F.G. Figure 8 knot. Double knot.

Boat knot.

Bowline, first step. Bowline, second step.

H. Bowline completed. I. Square or reef knot.

Sheet bend or weaver's knot.

Sheet bend with a toggle.

Carrick bend.

M. Stevedore knot completed.

N. Stevedore knot commenced.

O. Slip knot.

Flemish loop.

P. Q. R. Chain knot with toggle.

Half-hitch. Timber-hitch.

Clove-hitch. U. Rolling-hitch.

Timber-hitch and half-hitch.

W. Blackwall-hitch. X. Fisherman's bend.

Y. Round turn and half-hitch.

Wall knot commenced. AA. Wall knot completed.

BB. Wall knot crown commenced.

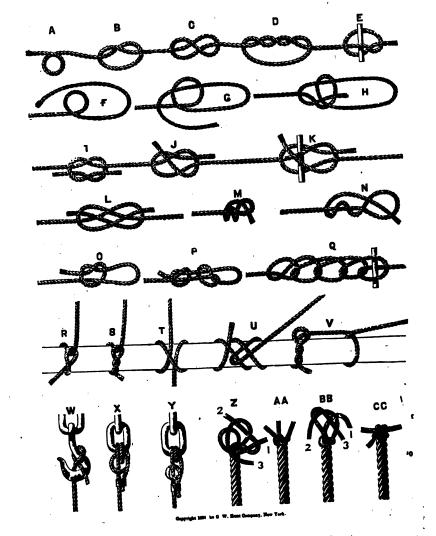
CC. Wall knot crown completed.

The principle of a knot is that no two parts, which would move in the same direction if the rope were to slip, should lay along side of and touching each other.

The bowline is one of the most useful knots; it will not slip, and after being strained is easily untied. It should be tied with facility by everyone who handles rope. Commence by making a bight in the rope, then put the end through the bight and under the standing part as shown in G. then pass the end again through the bight, and haul tight.

The square or reef knot must not be mistaken for the "granny" knot that slips under a strain. Knots H, K and M are easily untied after being under strain. The knot M is useful when the rope passes through an eyeand is held by the knot, as it will not slip and is easily untied after being strained.

The timber-hitch S, looks as though it would give way, but it will not: the greater the strain the tighter it will hold. The wall knot looks complicated, but it is easily made by proceeding as follows: Form a bight with strand 1 and pass the strand 2 around the end of it, and the strand 8 round the end of 2 and then through the bight of 1 as shown in the engraving Z. Haul the ends taut when the appearance is as shown in the engraving AA. The end of the strand 1 is now laid over the center of the knot, strand 2 laid over 1, and 3 over 2, when the end of 3 is passed through the bight of 1 as shown in the engraving BB. Haul all the strands taut as shown in the engraving CC.



# VESSEL TIME CARD AND DISTANCE TABLE OF LAKE PORTS.

## BETWEEN LAKE ERIE PORTS AND DETROIT.

## SPEED PER HOUR. (rIMEIS IN HOURS AND MINUTES.)

DETROIT TO	Milks.   7 mi.   8 mi.   9 mi.   10 mi.   11 mi.   12 mi.   13 mi.   14 mi.   15 mi.   16 mi.	7 mi.	8 mi.	9 mi.	10 mi.	ıı mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
10	256	36: 34	32	28: 27	25:36	36:34 32 28:27 25:36 23:16 21:20 19:41 18:17 17:4 16	21: 20	19:41	18: 17	17:4	91
Erie	187	26: 42	23: 22	20:46	18:42	17	15:35	14:23	13:21	12: 28	11:41
Conneaut		22: 51	8	17:46	9	14: 32	13: 20	12: 18	11:25	10:40	01
Ashtabula		20: 50	18: 15	16: 14	14: 36	13: 16	12, 10	11:13	10: 25	9:4	6: 7
Fairport		17: 17	15:7	13: 26	12:6	=	10: 5	2: 3	8:38	8:4	7: 33
Cleveland		15	13:7	11:40	10:30	9: 32	8:45	8:4	7:30	7	6: 33
Lorain		12: 34	Ξ	9:46	8: 48	∞	7: 20	6: 46	6: 17	5: 52	5:30
Huron		8:11	9:45	8:40	7:48	7:5	6: 30	9	5:34	5: 12	4: 52
Sandusky		9: 51	8: 37	7:40	6: 54	9: 19	5:45	5: 18	4: 55	4:36	4: 18
Toledo		œ	_	6: 13	5:36	5:5	4: 40	4: 18	4	3:44	33

405

### BETWEEN DETROIT AND SAULT STE. MARIE AND MACKINAW.

SPEED PER HOUR, (TIME IS IN HOURS AND MINUTES.)

DETROIT TO	W   7 mi   8 mi   0 mi   10 mi   11 mi   12 mi   13 mi   14 mi   15 mi	7 mi	S mi	imo	10.111	in ii	12 mi	1.2 mi	14 mi	14 111	16 mi
	MILES.									,	
Sault Ste. Marie	376	40:25	12: 15	38: 26	24: 26	21: 27	28: 50	26: 37	21: 12	22: 4	21: 27
M.C Lineare	5		20		2						
Mackinaw	311	44: 25	30:53	34:33	31:0	20: 10	25: 52	26: 10   25: 55   25: 53   22: 13   20: 44   19: 20	22:13	20: 44	5.50

## BETWEEN MACKINAW AND LAKE MICHIGAN PORTS.

## SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)

MACKINAW TO	MILES.	Milks.   7 mi.   8 mi.   9 mi.   10 mi.   11 mi.   12 mi.   13 mi.   14 mi.   15 mi.   16 mi.	8 mi.	9 mi.	ro mi.	11 mi.	12 mi.	r3 mi.	14 mi.	15 mi.	16 mi.
Escanaba. Green Ray Manitowoc Sheboygan Milwaukee Chicago South Chicago	128 198 194 214 270 270 333 338	18: 17         16         14: 13         12: 48         11: 38         10: 40         9: 50         9: 8         8: 32         8           28: 17         24: 45         22         19: 48         18         16: 30         15: 13         14: 8         13: 12         12: 22           27: 42         24: 15         21: 33         19: 24         17: 38         16: 10         14: 55         13: 12         12: 25           30: 34         26: 45         23: 46         21: 24         19: 27         17: 50         16: 27         15: 17         14: 16         13: 22           36: 51         32: 15         28: 40         25: 48         23: 27         21: 30         19: 50         18: 25         17: 12         16: 7           38: 34         33: 48         23: 27         21: 30         20: 46         19: 17         18: 7           46: 8         40: 22         35: 33: 18         29: 21         26: 24: 50         23: 4         21: 32           48: 7         42: 15         37: 33         33: 48         30: 43         28: 10         26         24: 8         22: 32         21: 7	16 24: 45 24: 15 26: 45 32: 15 33: 45 40: 22 42: 15	14: 13 22 21: 33 23: 46 28: 40 30 30: 35: 53 37: 33	12: 48 19: 48 19: 24 21: 24 25: 48 27: 33: 18 33: 48	11: 38 18 17: 38 19: 27 23: 27 24: 32 29: 21 30: 43	10: 40 16: 30 16: 10 17: 50 21: 30 22: 30 22: 30 26: 55 28: 10	9: 50 15: 13 14: 55 16: 27 19: 50 20: 46 20: 46 24: 50	9: 8 14: 8 13: 51 15: 17 18: 25 19: 17 23: 4	8: 32 13: 12 12: 56 14: 16 17: 12 18 21: 32 22: 32	8 12: 22 12: 7 13: 22 16: 7 16: 52 20: 11

# BETWEEN SAULT STE. MARIE AND LAKE SUPERIOR PORTS.

		_	SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)	E E	SOF.	LIME 18	E TOOL M	S AND M	NUTES	,	
SAULT STE. MARIE TO	Miles 7 mi. 8 mi. 9 mi. 10 mi. 11 mi. 12 mi. 13 mi. 14 mi. 15 mi. 16 mi.	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Marquette Ashland—Bayfield—Washburn. Ft. William—Port Arthur—Two Harbors	158 347 272 371 394	22: 34 49: 34 38: 51 53 56: 17	19: 45 43: 22 34 46: 22 49: 15	17: 33 38: 33 30: 14 41: 13 43: 46	15: 48 34: 42 27: 12 37: 6 39: 24	14: 21 31: 32 24: 43 33: 43 35: 49	13: 10 28: 55 22: 40 30: 55 32: 50	12: 9 26: 41 20: 55 28: 32 30: 18	11: 17 24: 47 19: 25 26: 30 28: 8	22: 34         19: 45         17: 33         15: 48         14: 21         13: 10         12: 9         11: 17         10: 32         9: 52           49: 34         43: 22         36: 33         34: 42         31: 32         28: 55         26: 41         24: 47         23: 8         21: 41           38: 51         34         30: 14         27: 12         24: 43         22: 40         20: 55         19: 25         18: 8         17           53         46: 22         41: 13         37: 6         33: 43         30: 55         28: 32         26: 30         24: 44         23: 11           56: 17         49: 15         49: 46         39: 24         35: 50         30: 18         28: 8         26: 16         24: 37	9: 52 21: 41 17 23: 11 24: 37
BOAT.		SPEED. Loaded. Light.	SPEED.			ВО	волт.			SPEED. Loaded. Light.	ED. Light.

### COMPASS COURSES AND DISTANCES.

The following tables of corrected compass courses and distances were prepared by Frank Morrison, compass adjuster, of Cleveland.

### CORRECTED COMPASS COURSES.

Lake Erie.	Course.	Miles.
Buffalo to Long Point	W by 8 34 8	633/4
Long Point to Dummy	W by 8 % S	134
Buffalo to Erie	8 W 34 W	761/2
Buffalo to Ashtabula	SW by W 1/4 W	10 <del>7</del> 2
Buffalo to Fairport	S W by W 34 W	143
Fairport to Cleveland	SW by W 1/2 SW 1/2 W	143 29
	9 W by W 7/ W	29 216
Buffalo to Sandusky	8 W by W % W W 34 8 W 14 8	126
Erie to Dummy	W 12 8	120 88
Ashtabula to Dummy	W % N	
Fairport to Dummy		621/2
Lorain to Dummy	N W by N	30
Sandusky to Dummy	NE by E 1/2 E	
LAKE HURON.	Course.	MILES.
Fort Gratiot to Sand Beach	N % W	581/2
Sand Beach to Thunder Bay	N by W 1/6 W	871/2
Thunder Bay to Presquile	N W by N 34 N	2612
Presquile to Forty-Mile Point	NW by W 🚧 W	47 ~
Thence Sheboygan Light	West	8
Presquile to Detour	NW by N 1/4 N	45
Detour to Cheboygan	8 W % W	30
Detour to Bois Blanc	W by 8 1/2 8	261/4
Thence to Straits of Mackinac	West ~	934
LAKE MICHIGAN.	Course.	MILES.
Waugoshance to North Manitou	8 W % 8	651/2
North Manitou to Point Betsey	C b W 1 / W	30
Pt. Betsey to Chicago	S by W 1/4 W	207
Waugoshance to Milwaukee north of	~ *** ^ ***	
Manitous	8 W % W	62
Thence	S W by S 5/8 S	177
Waugoshance to PovertyNo.of Beavers	W 1/2 N	14
Thence	SW by W 1/2 W SW 1/2 W	58
Waugoshance to Beavers	8 W ½ W	27
Beavers to Poverty	W 1/2 S	55
Chicago to the Door	N ¾ E N by E ¼ E	238
Milwaukee to the Door	N by E 1/6 E	1591/2

STRAITS OF MACKINAC.	Course.	MILES.
Cheboygan to Mackinac	N W by W 1/4 W West	19
LAKE SUPERIOR.	Course.	MILES.
Iroquois to Whitefish point	N W 34 N W 1/2 S W by S 1/4 S W 1/4 N W 1/2 S W by N 5/8 N W est W by S 1/2 S S W by N 1/2 W W by S 1/2 S S W by W 1/2 W W by S 1/2 S S W by W 1/2 W	2514 5634 60 145 20 1451/2 7 8 124 68 168

### DISTANCES.

	Erie.	Ashtabula.	Fairport.	Cleveland.	Escanaba.	Milwaukee.	Chicago.	Marquette.	Ashland.	Two Harbors.	Duluth.
Buffalo	80	117	143	173	696	825	892	760	949	973	998
Erie	١	43	73	101	626						928
Ashtabula			2	56	585			650			887
Fairport				30	563		759		817	841	865
Cleveland					544	67+	739	609			846
Escanaba						201	275	339			626
Milwaukee							83	519			755
Chicago							- 00	581	773		820
Chicago								301		•••	279
Ashland.				•••••				•••••	•••••	72	94
Two Harbors							•••••	•••••	•••••	'2	27
1 WO 1141 DO15	••••			•••••	••••		•••••	•••••	••••••		21

Distances to Chicago are by south passage; if by middle passage add nine miles: if west passage add 17 miles to the distances to Lake Superior and Lake Erie ports.

### DETROIT RIVER POSTAL SERVICE.

### REGULATIONS AS PUBLISHED BY THE POSTMASTER OF THE CITY OF DETROIT.

It will be necessary for boats desiring to receive or deliver United States mail to enter the American channel, but only at the point of delivery.

The station will be located at the foot of First street, and deliveries will be made as nearly opposite that point as possible by a launch and small boats, the service being a continuous one day and night.

When telegrams from passing vessels are handed to the marine letter carrier, the amount of money accompanying same, in addition to the cost of the message, should be sufficient to attach a 2-cent postage stamp to same.

The delivery of telegrams may be had by instructing the telegraph company to attach a 2-cent stamp to the telegram, and, for immediate delivery, the addition of a special delivery stamp.

Mail for delivery from the marine postoffice should be directed to the "Marine Postoffice, Detroit, Mich." and deliveries will be made throughout the entire period of navigation.

The signal to passing boats from the United States mail boat for delivery of mail will be one long whistle, one short whistle, one long whistle.

Signal for steam vessels wanting the mail boat to call for mail: One long whistle, one short whistle, one long whistle.

Signal for sailing vessels requiring mail boat: White flag by day, flashing bright light at night.

Signal from mail boat to large boats to check down: Three blasts of mocking bird whistle.

Signal from row boat belonging to mail boat when approaching vessels for delivery of mail: White flag in day time, swinging bright light at night.

IMPORTANT: Letters and packages will be received from passing boats by the marine carriers for registration and a receipt issued to the senders at the time, but registered letters and parcels can not be delivered to passing boats, as the necessary identification and receipts can not be had. The addressees of such letters and parcels are, however, duly notified by mail of their receipt, and that they will be held at the postoffice the usual time, subject to their order to forward or to deliver to some person ashore.

Money orders can also be procured through the marine carriers by following the instructions issued by the postmaster; if not provided with a copy of same, apply to the carrier.

## THE USE OF THE BEARING INDICATOR.

# Presented with Compliments of Buffalo Lodge.

(1) How to find the error of the compass by the north star.

2) And by the rising and setting sun.

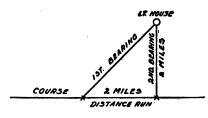
(3) How to obtain the distance off from a light-house or other known objects by bearings known as the four-point bearing, the cross bearing or the two-bearing method which are thus explained.

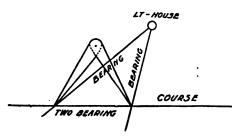
(1) To obtain the error of the compass by a bearing of the north star. Set the dial of the indicator same as the pilot house compass, then point the sight-bar toward the north star and the indicator will show the

error at once.

(2) By having the amplitude tables that have been published for the lake region, the error of the compass may be obtained by taking a bearing of the rising or setting sun.

#### THE FOUR POINT BEARING.

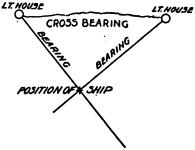




The four-point bearing is the most simple and easy bearing to take that will give the exact distance off a light-house or other known object without having to use the chart, and is taken thus: For instance, your course is N. ½ W., set the sight-bar at N. W. ½ W., or four (4) points of the bow; when the light-house or other object comes in range, note the time or log, or both, then run till the light-house or other object is abreast or eight (8) points of the bow, and the distance run between bearings will be the exact distance to the light-house.

#### THE CROSS BEARING.

The cross bearing is a very simple, quick and correct bearing when there are two light-houses in view, and is taken thus: Take a bearing of each light-house and draw them on the chart, and where the lines cross is the position of the ship.

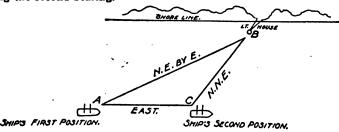


The two bearing method is taken thus: Take a bearing of light-house and draw the line on the chart, then run any distance, say a mile or two miles, then take another bearing, and draw it on the chart also, then set the dividers to the distance run, according to scale on chart, and draw them down the bearings on the course you have been steering till one point of the dividers rests on each line, and that will be the location of the ship at each bearing.

## TO FIND A SHIP'S DISTANCE.

FROM A POINT OF LAND OR A LIGHT, WITHOUT A TABLE, CHART OR DIVIDERS. Submitted by  $Bro.\ F.\ B.\ Higgis$ 

The problem is of great service when sailing along any coast and is as follows: Suppose any well known shore light bears two or three points on either bow, then let the ship keep on her course till it bears the same number of points to the left of the first bearing; the distance the ship has run in the interval is her distance from the light at the time of taking the second bearing.



# EXAMPLE.

Let A be a ship steering east; B a light bearing three points on the port bow, that is, N. E. by E. She proceeds on her course till the light bears three points to the left of N. E. by E. that is N. N. E., then C B. is equal to C. A. by 6th proposition, first book of Euclid.

	een	able	the dis-	₩:	red	ر د د د	, o,	1108		,							2	10‡	1
	betw	ne ne	the	Z	equ.	ı.	gu!								٠		9 8 9		l
	rvall	in th	between	s take	W. R	t pea	o bear									2.41	1.72 1.96	2	
	e inte	ound e cou	produ	ng wa	N.Yasta	d bre	econic.	ired.							2.50	2.08		ま	
	in th	aber f	difference between the The product is the dis-	bearing	ring v	Se an	and a	e requ						9 1: 1:	2.08	1.78	1.65	6	l
	ce rur	between		when	niles id bea	con	cours	istanc					3	2.11	1.79	1.57	1.41	æ	l
Ţ	Multiply the distance run in the interval between	the two bearings by the number found in the table	bearing, and opposite the difference between course and second bearing. The product is the	tance at the time the second bearing was taken. Example-A light when first seen bore W. N	after running W. 3, 16 miles it bore N. 1/4 W. Required its distance when second bearing was taken.	Difference between course and hist bearing, 3 nts.	Dinerence between course and second bearing, 655 nts.	Corresponding tabular number, 0.03, and 10 miles x 0.63=10.08 miles, the distance required.				2.61	9. IS	1.80	1.58	1.41	1.29	∞	
	v the	rings	do pu	E-A	ng W.	ee pe	ice per	miles			<b>9</b> .60	2.11	1.79	1.67	1.41	1.29	1.20	7	Difference between the course and the first bearing in points.
	ultipl	vo bea	ng, ar	at the	runni	Heren S.	neren S.	=10.08		9. 5.5	2.08	1.76.	1 55	1.89	1.27	1.18	1.11	-	t bearing
	M	the ty	bearing	tance	after its di	points.	points.	× 0.63	9.50	96 96	1.72	1.51	1.85	1.24	1.15	1.08	1.08	<b>3</b>	the firs
								2.41	1.96	1.66	1.46	1.81	1.19	1.11	1.05	8.1	0.02		Due and
							2.80	1.87	1.58	1.39	1.25	1.14	1.08	1.0	0.95	36.0	0.90	ੜ	the con
						2.17	1.77	1.50	1.81	1.18	1.08	1.08	0.94	0.90	0.87	0.85	0.83	10	Del Ween
					29 61	1.64	1.89	1.22	1.09	1.0	0.93	0.88	0.84	0.81	0.79	0.78	0.77	\$	Grence
				1.85	1.60	1.27	1:11	1.08	0.92	0.85	0.80	92.0	0.74	0.72	0.71	0.71	0.71	-	Diff
			1,66	1.85	1.14	1.8	0.90	0.82	92.0	0.72	0.69	9.66	0.65	9.64	0.68	0.64	0.63	<b>*</b>	
		1.45	1.17	9.	0.88	0.79	0.72	0.67	0.68	0.60	0.58	0.57	0.56	0.56	0.56	0.57	0.58		
	1.28	8.1	0.85	0.74	0.67	0.61	0.57	0.58	0.51	0.49	0.48	0.47	0.47	0.47	0.48	0.49	0.51	<b>*</b>	
8.	0.81	0.69	9.60	0.54	0.49	0.46	0.43	0.41	0.40	0.89	0.88	0.88	0.88	0.39	0.40	0.41	0.43	67	
•	<b>‡</b>		盂	•	<b>*</b>		7.	<b></b>	æ	•	ょ	2	<b>10</b>		111	13	द्		

# PILOT RULES FOR THE GREAT LAKES

# And Their Connecting and Tributary Waters.

Rules and Regulations for the government of pilots of vessels propelled by steam, gas, fluid, naphtha, or electric motors, and of other vessels propelled by machinery, navigating the Great Lakes and their connecting and tributary waters as far east as Montreal, adopted by the Board of United States Supervising Inspectors, Steamboat Inspection Service, on February 14, 1907, and approved by the Secretary of Commerce and Labor on February 25, 1907, under the authority of an Act of Congress approved February 8, 1895.

These Rules Shall Be Effective On and After July 1, 1907.

#### PRELIMINARY.

In the following rules the words "steam vessel" and "steamer" shall include any vessel propelled by machinery.

A vessel is "under way" within the meaning of these rules when

she is not at anchor or made fast to the shore or aground.

"Risk of collision" can, when circumstances permit, be ascertained by carefully watching the compass bearing of an approaching vessel. If the bearing does not appreciably change, such risk should be deemed to exist.

#### SIGNALS.

Rule I. In all weathers every steam vessel under way in taking any course authorized or required by these rules shall indicate that course by the following "signals" on her whistle, to be accompanied, whenever required, by corresponding alteration of her helm; and every steam vessel receiving a signal from another shall promptly respond with the same signal or sound the danger signal as provided in Rule II:

"One blast" means, "I am directing my course to starboard," except when two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, one short blast signifies intention of steamer which is to

starboard of the other to hold course and speed.

"Two blasts" mean, "I am directing my course to port," except that when two steamers are approaching each other at right angles

or offigurily, other than when one steamer is evertaking analysis of the steamer in both is to the steamer in both is to the out of the other to cross the bow of steamer to steamer distributed

Raie II. If when steamers are approaching each other, the place of either vessel fails to understand the course or intention of the officer, whether from signals being given or answered enough ously, or from other causes, the pilot so in doubt shall immediately signify the same by giving the "danger signal" of four or more should and rapid blasts of the whistle: and if both ressels shall have approached within half a mile of each other, both shall be immediately slowed to a speed barely sufficient for steerageway, and, it never sary, stopped and reversed, until the proper signals are given, answered, and understood, or until the vessels shall have passed each other.

Rule III. Steam vessels are forbidden to use what has become technically known among pilots as "cross signals" that is, answering one whistle with two, and answering two whistles with one. In all cases, and under all circumstances, a pilot receiving either of the whistle signals provided in the rules, which for any reason he deems injudicious to comply with, instead of answering it with a cross signal, shall at once sound the danger signal and observe the rule applying thereto (Rule II).

Rule IV. The signals for passing, by the blowing of the whistle, shall be given and answered by pilots in compliance with these tules, not only when meeting "head and head," or nearly so, but at all times when passing or meeting at a distance within a half mile of

each other, and whether passing to the starboard or port.

#### SITUATIONS.

Rule V. When steamers are approaching each other "head and head," or nearly so, it shall be the duty of each steamer to pass on the port side of the other; and the pilot of either steamer may be first in determining to pursue this course, and thereupon shall give, as a signal of his intention, one short and distinct blast of his whistle, which the pilot of the other steamer shall answer promptly by a similar blast of his whistle, and thereupon such steamers shall pass on the port side of each other. But if the courses of such steamers are so far on the starboard of each other un not to be considered by pilots as meeting "head and head," or nearly an, the pilot so first deciding shall immediately give two short and distinct blasts of his whistle, which the pilot of the other steamer shall answer promptly by two similar blasts of his whistle, and they shall tores to the starboard side of each other: Provided, however, I had in all narrow channels where there is a current and in the rivers lit Man-St. Clair, Detroit, Niagara, and St. Lawrence, when two state

are meeting, the descending steamer shall have the right of way, and shall, before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate which side she elects to take.

In the night, steamers will be considered as meeting "head and head" so long as both the colored lights of each are in view of the other.

Rule VI. Whenever a steamer is nearing a short bend or curve in the channel, where, from the height of the banks or other cause, a steamer approaching from the opposite direction cannot be seen for a distance of half a mile, the pilot of such steamer, when he shall have arrived within half a mile of such curve or bend, shall give a signal by one long blast of the whistle, which signal shall be answered by a similar blast, given by the pilot of any steamer within hearing that may be approaching on the other side, and within half a mile of such bend or curve. Should such signal be so answered by a steamer upon the further side of such bend, then the usual signals for meeting and passing shall immediately be given and answered; but if the first signal of such pilot be not answered, he is to consider the channel clear and govern himself accordingly.

Rule VII. When a steamer is moved from its dock or berth, and other steamers are liable to approach such steamer from any direction, such steamer and any approaching steamer shall give the same signals as in case of steamers meeting at a bend; but immediately after clearing the dock or berth as to be fully in sight they

shall be governed by the rules for passing.

Rule VIII. When one steamer is overtaking another, and the pilot of a steamer which is astern shall desire to pass on the right or starboard hand of the steamer ahead, he shall give one short blast of the whistle, as a signal of such desire and intention, and shall put his helm to port; or if he shall desire to pass on the left or port side of the steamer ahead, he shall give two short blasts of the whistle as a signal of such desire and intention, and shall put his helm to starboard, and the pilot of the steamer ahead shall answer by the same signals; or if he does not think it safe for the steamer astern to attempt to pass at that point, he shall immediately signify the same by giving four or more short and rapid blasts of the whistle, and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer anead shall signify her willingness by blowing the proper signals. boat ahead shall in no case attempt to cross the bow or crowd upon the course of the passing steamer.

Every vessel coming up with another vessel from any direction more than two points abaft her beam—that is, in such a position, with reference to the vessel which she is overtaking, that at night she would be unable to see either of that vessel's side lights—shall be deemed to be an overtaking vessel; and no subsequent alteration of the bearing between the two vessels shall make the overtaking vessel a crossing vessel within the meaning of these rules, or relieve her of the duty of keeping clear of the overtaken vessel until she is finally passed and clear.

As by day the overtaking vessel cannot always know with certainty whether she is forward of or abaft this direction from the other vessel, she should, if in doubt, assume that she is an overtak-

ing vessel and keep out of the way.

Rule IX. In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the steam vessel ahead shall be disabled or signify her willingness that the steam vessel astern shall pass, when the steam vessel astern may pass, subject, however, to the other rules applicable to such a situation. And when steam vessels proceeding in opposite directions are about to meet in such channels, both such vessels shall be slowed down to a moderate speed, according to the circumstances.

Rule X. When two steamers are approaching each other at right angles or obliquely so as to involve risk of collision, other than when one steamer is overtaking another, the steamer which has the other on her own port side shall hold her course and speed; and the steamer which has the other on her own starboard side shall keep out of the way of the other by directing her course to starboard so as to cross the stern of the other steamer, or, if necessary to do so, slacken her speed or stop or reverse. The steamer having the other on her own port bow shall blow one blast of her whistle as a signal of her intention to cross the bow of the other, holding her course and speed, which signal shall be promptly answered by the other steamer by one short blast of her whistle as a signal of her intention to direct her course to starboard so as to cross the stern of the other steamer or otherwise keep clear.

If from any cause whatever the conditions covered by this situation are such as to prevent immediate compliance with each other's signals, the misunderstanding or objection shall be at once made apparent by blowing the danger signal, and both steamers shall be stopped, and backed if necessary, until signals for passing with safety are made and understood.

Rule XI. When two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, so that the steamer having the other on her own starboard side may cross the bow of the other, without involving risk of collision, the steamer having the other on her own starboard side may cross the bow of the other. If the steamers are within half a mile of each other the steamer having the other on her own starboard side shall give, as a signal of her intention to cross the bow of the

other, two short and distinct blasts of her whistle, which, if assented to, the other steamer shall promptly answer by two similar blasts of her whistle, when the steamer having the other on her own starboard bow may cross the bow of the other, in which case the steamer having the other on her own port side shall keep out of the way of the other. If, however, the steamer having the other on her own port side deems it dangerous for the other steamer to cross her bow, she shall sound the danger signal, in which case both steamers shall be stopped, and backed if necessary, until signals for passing with safety are made, answered, and understood.

Rule XII. When a steam vessel and a sailing vessel are proceeding in such directions as to involve risk of collision the steam

vessel shall keep out of the way of the sailing vessel.

Rule XIII. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

#### FOG SIGNALS.

Rule XIV. Whenever there is thick weather by reason of fog, mist, falling snow, heavy rain storms, or other causes, whether by day or by night, fog signals shall be used as follows:

A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute

three distinct blasts of her whistle.

A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three

to five seconds.

Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking twice in quick succession (in the manner in which four bells is struck in indicating time).

Any vessel at anchor and any vessel aground in or near a channel or fairway shall, at intervals of not more than two minutes,

ring the bell rapidly for three to five seconds.

# SPEED TO BE MODERATE IN FOG, AND SO FORTH.

Rule XV. Every steam vessel shall, in thick weather, by reason of fog, mist, falling snow, heavy rain storms, or other causes, go at moderate speed. A steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel, shall at once reduce her speed to bare steerageway, and navigate with caution until-the vessels shall have passed each other.

#### POSTING OF PILOT RULES.

On steam and other motor vessels of over 100 gross tons, two copies of the placard form of these rules (Form 807) shall be kept posted up in conspicuous places in the vessel, one copy of which shall be kept posted up in the pilot house. On steam and other motor vessels of over 25 gross tons and not over 100 gross tons, two copies of the placard form of pilot rules shall be kept on board, one copy of which shall be kept posted up in the pilot house. On steam and other motor vessels of 25 gross tons and under, two copies of the placard form of pilot rules shall be kept on board, and, where practicable, one copy thereof shall be kept conspicuously posted up in the vessel. (Authority: Section 3, act of Congress approved February 8, 1895.)

#### DIAGRAMS.

The following diagrams are intended to illustrate the working of the system of colored lights and pilot rules:

#### FIRST SITUATION.

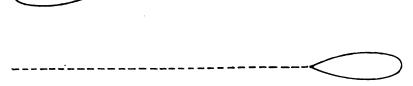


Here the two colored lights visible to each will indicate their direct approach "head and head" toward each other. In this situation it is a standing rule that both shall put their helms to port and pass on the port side of each other, each having previously given one blast of the whistle.

#### SECOND SITUATION.

In this situation the red light only will be visible to each, the screens preventing the green lights from being seen. Both vessels are evidently passing to port of each other, which is rulable in this situation, each pilot having previously signified his intention by one blast of the whistle.





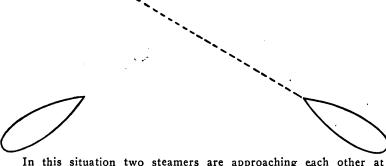
In this situation the green light only will be visible to each, the screens preventing the red light from being seen. They are therefore passing to starboard of each other, which is rulable in this situation, each pilot having previously signified his intention by two blasts of the whistle.

#### FOURTH SITUATION.



In this situation one steamer is overtaking another steamer from some point within the angle of two points abaft the beams of the overtaken steamer. The overtaking steamer may pass on the starboard or port side of the steamer ahead after the necessary signals for passing have been given, with assent of the overtaken steamer, as prescribed in Rule VIII.

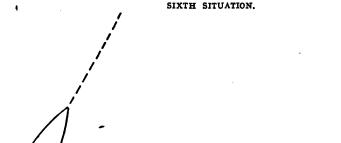
FIFTH SITUATION.



In this situation two steamers are approaching each other at right angles or obliquely in such manner as to involve risk of collision, other than where one steamer is overtaking another.

The steamer which has the other on her own port side shall hold course and speed, and the other shall keep clear by crossing astern of the steamer that is holding course and speed, or, if necessary to do so, shall slacken her speed or stop or reverse.

Both steamers shall otherwise observe the provisions of Rule X with respect to the signals for passing and the danger signal.



In this situation two steamers are approaching each other at right angles or obliquely without involving risk of collision, the course and speed of both being such as would clearly allow the steamer having the other on own starboard side to cross the bow of the other without interfering with the course and speed of the other. In this case the steamer having the other on own starboard side may crosss ahead of the other, after giving the necessary signals, and receiving the assent of the other steamer, when within half a mile of each other, as provided in Rule XI.

# DETROIT RIVER.

Rules and Regulations for Navigating the Lower Detroit River, which Have Received the Joint Approval of the Governments of the United States and the Dominion of Canada.

#### RULES AND REGULATIONS.

- 1. Administration. The lower Detroit River shall be in charge of the officer of the Corps of Engineers, U. S. Army, detailed for the improvement of the Detroit River by the Secretary of War. His representative at the locality shall be the captain of the patrol boat, who shall receive his orders and instructions from the Engineer Officer in charge, but in cases of emergency shall have authority to take such steps as may be immediately necessary without waiting for specific instructions from the Engineer Officer in charge, and shall see to the enforcement of the following rules and regulations.
- 2. Definition. The lower Detroit River shall include all that portion of the river between the Mamajuda range lights and Lake Erie.
- 3. No freight boat bound down shall pass or approach another freight boat bound in the same direction nearer than one-quarter of a mile between Mamajuda range lights and the lower end of Bois Blanc Island.
- 4. No passenger boat bound down shall pass another boat bound down between the south gas buoy No. 2, Ballard Reef Channel, and the head of Bois Blanc Island.

5. No vessel, freight or passenger, shall pass another going in the same direction, or in the opposite direction, in the narrow portion of the channel at Limekiln Crossing, during the progress of the work of widening the channel at this locality.

6. All vessels, both freight and passenger, bound up or down, when signaled so to do, shall slow down in passing any part of the

plant engaged on channel improvements.

7. Three distinct blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high a rate of speed, and such vessel must immediately moderate her speed accordingly.

8. Three long blasts of the steam whistle followed by two short blasts, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further

orders from the patrolling vessel.

9. One long blast followed by four short blasts, when sounded from the patrolling vessel, will indicate that the vessel to which

such signal is given may proceed on her course.

10. While in the performance of his duties, all orders of the Engineer Officer or his representative shall be obeyed. Any violation of such orders, and any violation of the above rules and regulations, shall subject the offender to the penalties provided in the law

quoted in the first part of these regulations.

11. In the emergency specified in section 20 of the Act of Congress of March 3, 1899, (in case the channel is blocked by the sinking, grounding, or other unavoidable delay of a vessel) the officer in charge, or his representative, in addition to the authority therein given, shall have full power to stop all vessels and direct their anchorage, clear the channel, designate the order in which all vessels shall proceed after the channel is opened, and shall do all other things necessary and proper to expedite the passage of vessels.

Concurred in by the officers representing the United States and the Dominion of Canada at a joint conference held at Detroit, July

31, 1907.

# RULES AND REGULATIONS FOR NAVIGATING THE DETROIT RIVER IN THE VICINITY OF DETROIT RIVER LIGHTHOUSE.

October 10, 1907. The Government has improved the channel to the westward of Detroit River lighthouse, extending out to deep water in Lake Erie. This channel has a width of 400 feet and depth of 22.7 feet at mean stage of water.

Fourteen black spar buoys, which are lighted at night, mark the western edge of this channel from Bar Point Shoal lightship to ics outer end. One red and black spar and seven red spars, also lighted, mark the eastern edge of the channel from a point about 1,500 feet

above Detroit River lighthouse to its outer end. These marks are placed and maintained by the Lake Carriers' Association.

The two spar buoys marking the outer end of this channel were

replaced by two acetylene-gas buoys on or about October 16.

The following regulations will govern the use of this channel: "All down-bound vessels," after passing the Bar Point lightship, shall keep the black spar buoys close aboard and pass to the westward of the Detroit River lighthouse.

"All up-bound vessels" shall pass to the eastward of the Detroit River lighthouse, entering the channel between the red and black

spar buoy and the red gas buoy, this being the usual course.

# RULES AND REGULATIONS FOR NAVIGATING THE SAINT CLAIR RIVER, MICH., IN THE VICINITY OF STAG ISLAND.

The United States Government having improved the channel to the westward of Stag Island by the removal of shoals, the following regulation is promulgated by the Secretary of War in pursuance of the provisions of Section 4 of the river and harbor act of August 18, 1894, as amended by Section 11 of the river and harbor act of June 13, 1902.

All through-bound vessels in passing through the river at this point shall keep to the right, that is to say, all up-bound boats shall pass through the eastern channel and all down-bound boats through

the western channel.

This rule shall only apply to through-bound vessels and not to vessels running between local points on the river, which vessels may take either channel, conforming to the ordinary rules of the road at sea.

ROBERT SHAW OLIVER, Assistant Secretary of War.

War Department, January 8, 1907.

The Canadian Government have concurred in the foregoing regulations for the navigation of the St. Clair River.

# Penalties for Violations.

Every person and every corporation which shall violate such rules and regulations shall be deemed guilty of a misdemeanor and, on conviction thereof in any district court of the United States within whose territorial jurisdiction such offense may have been committed, shall be punished by a fine not exceeding five hundred dollars, or by imprisonment (in case of a natural person) not exceeding six months, in the discretion of the court.

# RULES OF THE ROAD FOR THE GREAT LAKES, KNOWN AS THE WHITE LAW.

An act to regulate navigation on the Great Lakes and their con-

necting and tributary waters.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That the following rules for preventing collisions shall be followed in the navigation of all public and private vessels of the United States upon the Great Lakes and their connecting and tributary waters as far east as Montreal.

#### STEAM AND SAIL VESSELS.

Rule 1. Every steam vessel which is under sail and not under steam shall be considered a sail vessel; and every steam vessel which is under steam, whether under sail or not, shall be considered a steam vessel. The word steam vessel shall include any vessel propelled by machinery. A vessel is under way within the meaning of these rules when she is not at anchor or made fast to the shore, or aground.

#### LIGHTS.

Rule 2. The lights mentioned in the following rules and no others shall be carried in all weathers from sunset to sunrise. The word visible in these rules when applied to lights shall mean visible on a dark night with a clear atmosphere.

Rule 3. Except in the cases hereinafter expressly provided for, a

steam vessel when under way shall carry:

(a) On or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at a height above the hull of not less than twenty feet, and if the beam of the vessel exceeds twenty feet, then at a height above the hull not less than such beam, so, however, that such height need not exceed forty feet, a bright white light so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side, and of such character as to be visible at a distance of at least five miles.

(b) On the starboard side, a green light, so constructed as to throw an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side, and of such a character as to be visible at a

distance of at least two miles.

- (c) On the port side, a red light, so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible at a distance of at least two miles.
- (d) The said green and red lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

(e) A steamer of over one hundred and fifty feet register length shall also carry when under way an additional bright light similar in construction to that mentioned in subdivision (a), so fixed as to throw the light all around the horizon and of such a character as to be visible at a distance of at least three miles. Such additional light shall be placed in line with the keel at least fifteen feet higher from the deck and more than seventy-five feet abaft the light mentioned in subdivision (a).

#### VESSELS TOWING.

Rule 4. A steam vessel having a tow other than a raft shall in addition to the forward bright light mentioned in subdivision (a) of rule three, carry in a vertical line not less than six feet above or below that light a second bright light of the same construction and character and fixed and carried in the same manner as the forward bright light mentioned in said subdivision (a) of rule three. Such steamer shall also carry a small bright light abaft the funnel or after mast for the tow to steer by, but such light shall not be visible forward of the beam.

Rule 5. A steam vessel having a raft in tow shall, instead of the forward lights mentioned in rule four carry on or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at a height above the hull of not less than twenty feet and if the beam of the vessel exceeds twenty feet, then at a height above the hull not less than such beam, so however that such height need not exceed forty feet, two bright lights in a horizontal line athwartships and not less than eight feet apart, each so fixed as to throw the light all around the horizon and of such character as to be visible at a distance of at least five miles. Such steamer shall also carry the small bright steering light aft, of the character and fixed as required in rule four.

Rule 6. A sailing vessel under way and any vessel being towed shall carry the side lights mentioned in rule three.

A vessel in tow shall also carry a small bright light aft, but such light shall not be visible forward of the beam.

Rule 7. The lights for tugs under thirty tons register, whose principal business is harbor towing and for boats navigating only on the River St. Lawrence, also ferryboats, rafts, and canal boats, shall be regulated by rules which have been or may hereafter be prescribed by the Board of Supervising Inspectors of Steam Vessels.

Rule 8. Whenever, as in the case of small vessels under way during bad weather, the green and red side lights cannot be fixed, these lights shall be kept at hand lighted and ready for use, and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side, nor, if practicable, more than two points abalt the beam, on their respective sides. To make the use of these portable lights more certain and easy, they shall each be painted outside with the color of the light they respectively contain, and shall be provided with suitable screens.

Rule 9. A vessel under one hundred and fifty feet register length, when at anchor, shall carry forward, where it can best be seen, but at a height not exceeding twenty feet above the hull, a white light in a lantern constructed so as to show a clear, uniform, and unbroken light, visible all around the horizon, at a distance of at least one mile.

A vessel of one hundred and fifty feet or upward in register length, when at anchor, shall carry in the forward part of the vessel, at a height of not less than twenty and not exceeding forty feet above the hull, one such light, and at or near the stern of the vessel, and at such a height that it shall be not less than fifteen feet lower than the forward light, another such light.

Rule 10. Produce boats, canal boats, fishing boats, rafts, or other water craft navigating any bay, harbor, or river by hand power, horse power, sail, or by the current of the river, or which shall be anchored or moored in or near the channel or fairway of any bay, harbor, or river, and not otherwise provided for in these rules, shall carry one or more good white lights, which shall be placed in such manner as shall be prescribed by the Board of Supervising Inspectors of Steam Vessels.

Rule 11. Open boats shall not be obliged to carry the side lights required for other vessels, but shall, if they do not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels such lantern shall be exhibited in sufficient time to prevent collision, and in such a manner that the green light shall not be seen on the port side, nor the red light on the starboard side. Open boats, when at anchor or stationary, shall exhibit a bright white light. They shall not, however, be prevented from using a flare-up in addition if considered expedient.

Rule 12. Sailing vessels shall at all times, on the approach of any steamer during the night-time, show a lighted torch upon that point or quarter to which such steamer shall be approaching.

Rule 13. The exhibition of any light on board of a vessel of war or revenue cutter of the United States may be suspended whenever, in the opinion of the Secretary of the Navy, the commander in chief of a squadron, or the commander of a vessel acting singly, the special character of the service may require it.

#### FOG SIGNALS.

Rule 14. A steam vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam, placed before the funnel not less than eight feet from the deck, or in such other place as the local inspectors of steam vessels shall determine, and of such character as to be heard in ordinary weather at a distance of at least two miles, and with an efficient bell, and it is hereby made the duty of the United States local inspectors of steam vessels when inspecting the same to require each steamer to be furnished with such whistle and bell. A sailing vessel shall be provided with an efficient fog horn and with an efficient bell.

Whenever there is thick weather by reason of fog, mist, falling snow, heavy rainstorms, or other causes, whether by day or by night, fog signals shall be used as follows:

(a) A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute three

distinct blasts of her whistle.

(b) Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking twice in quick succession (in the manner in which four bells is struck in indicating time).

(c) A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three

to five seconds.

(d) A sailing vessel under way and not in tow shall sound at inter-

vals of not more than one minute-

If on the starboard tack with wind forward of abeam, one blast of her fog horn:

If on the port tack with wind forward of the beam, two blasts of her

If she has the wind abast the beam on either side, three blasts of her

fog horn.

(e) Any vessel at anchor and any vessel aground in or near a channel or fairway shall at intervals of not more than two minutes ring the bell rapidly for three to five seconds.

(f) Vessels of less than 10 tons registered tonnage not being steam vessels, shall not be obliged to give the above-mentioned signals, but if they do not they shall make some other efficient sound signal at intervals

of not more than one minute.

(g) Produce boats, fishing boats, rafts, or other water craft navigating by hand power or by the current of the river, or anchored or moored in or near the channel or fairway and not in any port, and not otherwise provided for in these rules, shall sound a fog horn, or equivalent

signal, at intervals of not more than one minute.

Rule 15. Every vessel shall, in thick weather, by reason of fog. mist. falling snow, heavy rain storms, or other causes, go at moderate speed. A steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel shall at once reduce her speed to bare steerageway, and navigate with caution until the vessels shall have passed each other.

# STEERING AND SAILING RULES.

#### SAILING VESSELS.

Rule 16. When two sailing vessels are approaching one another so as to involve risk of collision one of them shall keep out of the way of the other, as follows, namely:

- (a) A vessel which is running free shall keep out of the way of a vessel which is close hauled.
- (b) A vessel which is close hauled on the port tack shall keep out of the way of a vessel which is close hauled on the starboard tack.
- (c) When both are running free, with the wind on different sides, the vessel which has the wind on the port side shall keep out of the way of the other.
- (d) When they are running free, with the wind on the same side, the vessel which is to windward shall keep out of the way of the vessel which is to leeward.

#### STEAM VESSELS.

Rule 17. When two steam vessels are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each shall pass on the port side of the other.

Rule 18. When two steam vessels are crossing so as to involve risk of collision the vessel which has the other on her own starboard

side shall keep out of the way of the other.

Rule 19. When a steam vessel and a sailing vessel are proceeding in such directions as to involve risk of collision the steam vessel shall keep out of the way of the sailing vessel.

Rule 20. Where, by any of the rules herein prescribed, one of two vessels shall keep out of the way, the other shall keep her course and

speed.

Rule 21. Every steam vessel which is directed by these rules to keep out of the way of another vessel shall, on approaching her, if necessary, slacken her speed or stop or reverse.

Rule 22. Notwithstanding anything contained in these rules every vessel overtaking any other shall keep out of the way of the over-

taken vessel.

Rule 23. In all weathers every steam vessel under way in taking any course authorized or required by these rules shall indicate that course by the following signals on her whistle, to be accompanied whenever required by corresponding alteration of her helm; and every steam vessel receiving a signal from another shall promptly respond with the same signal or, as provided in Rule Twenty-six:

One blast to mean, "I am directing my course to starboard."

Two blasts to mean, "I am directing my course to port." But the giving or answering signals by a vessel required to keep her course shall

not vary the duties and obligations of the respective vessels.

Rule 24. That in all narrow channels where there is a current, and in the rivers Saint Mary, Saint Clair, Detroit, Niagara, and Saint Lawrence, when two steamers are meeting, the descending steamer shall have the right of way, and shall, before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate which side she elects to take

Rule 25. In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the

steam vessel ahead be disabled or signify her willingness that the steam vessel astern shall pass, when the steam vessel astern may pass, subject, however, to the other rules applicable to such a situation. And when steam vessels proceeding in opposite directions are about to meet in such channels, both such vessels shall be slowed down to a moderate

speed, according to the circumstances.

Rule 26. If the pilot of a steam vessel to which a passing signal is sounded, deems it unsafe to accept and assent to said signal, he shall not sound a cross signal; but in that case, and in every case where the pilot of one steamer fails to understand the course or intention of an approaching steamer, whether from signals being given or answered erroneously, or from other causes, the pilot of such steamer so receiving the first passing signal, or the pilot so in doubt, shall sound several short and rapid blasts of the whistle; and if the vessels shall have approached within half a mile of each other both shall reduce their speed to bare steerageway, and, if necessary, stop and reverse.

Rule 27. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from the above rules necessary in

order to avoid immediate danger.

Rule 28. Nothing in these rules shall exonerate any vessel, or the owner or master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper lookout, or of a neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Sec. 2. That a fine not exceeding two hundred dollars may be imposed for the violation of any of the provisions of this act. The vessel shall be liable for the said penalty, and may be seized and proceeded against, by way of libel, in the district court of the United States for any

district within which such vessel may be found.

Sec. 3. That the Secretary of Commerce and Labor of the United States shall have authority to establish all necessary regulations, not inconsistent with the provisions of this act, required to carry the same into effect.

The Board of Supervising Inspectors of the United States shall have authority to establish such regulations to be observed by all steam vessels in passing each other, not inconsistent with the provisions of this act, as they shall from time to time deem necessary; and all regulations adopted by the said Board of Supervising Inspectors under the authority of this act, when approved by the Secretary of Commerce and Labor shall have the force of law. Two printed copies of any such regulations for passing, signed by them, shall be furnished to each steam vessel, and shall at all times be kept posted up in conspicuous places on board.

Sec. 4. That all laws or parts of laws, so far as applicable to the navigation of the Great Lakes and their connecting and tributary waters as far east as Montreal, inconsistent with the foregoing rules are hereby

repealed.

Sec. 5. That this act shall take effect on and after March first, eighteen hundred and ninety-five.

#### NAVIGATION OF ST. MARY'S RIVER.

Rules and Regulations governing the Movements and Anchorage of Vessels as prescribed by the Secretary of the Treasury, and Amended January 22, 1901, and August 24, 1906.

Rule 1.—No vessel ascending or descending the St. Mary's river shall proceed at a greater speed than 9 statute miles per hour over the ground between Everens point and the northern floatlights in lower Hay lake of the 20-ft. channel leading from Neebish channel, nor between the crib in upper Hay lake at the entrance of the 20-ft. channel of the Frechette and Little Rapids cut and the government pier at Sault Ste. Marie, nor between the western end of Sault Ste. Marie canal pier and Pointe aux Pins light-house. Vessels of 500 tons or less are exempt from the provisions of this rule.

Rule 2.—No vessel shall pass or approach another vessel moving in the same direction nearer than a quarter of a mile between Everens point and the northern end of the Dark Hole, nor between the first black spar buoy south of the gas buoy in the northern part of Little Mud lake and the northern float lights in lower Hay lake of the 20-foot channel leading from Neebish channel, nor between the southern entrance of the 20-foot channel of the Frechette and Little Rapids cut and the crib light at the northern entrance of the Little Rapids cut, nor between the western end of the Sault Ste. Marie canal piers and Big point.

Rule 3.—All vessels bound up the St. Marys river may pass other vessels moving in the same direction between the crib light in the northern part of Mud lake, and Everens point in Little Mud lake, between the northern part of the Dark Hole and the south red buoy at Stribbling point; also between the crib light-house at the northern entrance of Little Rapids or island cut and the government pier at Sault Ste. Marie, and between Big point and the light-house at Pointe aux Pins. Vessels bound down the river shall n t pass or approach other vessels moving in the same direction nearer than a quarter of a mile, from below the wharf of the Michigan & Lake Superior Power Co. at Sault Ste. Marie, until Everens point is passed, excepting, however, in Hay lake.

Vessels bound down, of less than 500 gross tons without tows, may pass other vessels moving in the same direction in Little Mud lake, provided the overtaking vessel shall pass to the westward of the black buoys and before reaching the Dark Hole.

No vessel passing another vessel shall move at a rate of speed greater than 9 statute miles per hour over the ground.

Rule 4.—All vessels navigating the St. Marys river may proceed at full speed and pass other vessels moving in the same direction between Point Detour and the turning channel buoy in the northern part of Mud lake, between the northern float lights of the 20-foot channel leading from

the Neebish channel into Hay lake and the crib light at the entrance of Frechette and Little Rapids cut.

Special attention is called to rule 24 of the act of congress approved Feb. 18, 1895, giving right of way to descending vessels in the St. Mary's river.

Rule 5.—In case one steamer desires to pass another going in the same direction on said river, at a point where such passing is permitted by these rules, the pilot of the steamer astern shall, if he intends to pass the steamer ahead on the right hand or starboard side, indicate such intention by giving one short blast of the steam whistle, and if he intends to pass such steamer ahead on the left hand or port ide, he shall indicate such intention by giving two short blasts of the steam whistle. Upon the pilot of one steamer astern of another giving such signal, the pilot of the steamer ahead shall immediately answer by giving the same signal; but if he does not think it safe for the steamer astern to attempt to pass at that point, he shall immediately signify the same by giving several short and rapid blasts of the steam whistle; and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals; then the steamer ahead shall slacken to a slow rate of speed, and the steamer astern shall pass the overtaken steamer, giving the overtaken steamer as wide a berth as possible.

Steamers bound in opposite directions shall slow to half speed within one-quarter of a mile of each other until each has passed the other.

Rule 6.—The patrolling vessels of the revenue cutter service shall always have the right of way over all other vessels, as indicated by the sailing signals given by any such patrolling vessel.

Rule 7.—Three distinct blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high a rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 8.—Three long blasts of the steam whistle, followed by one short blast, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

Rule 9,—Two red lanterns, one above the other, hoisted on a patrolling vessel at night, will indicate to the vessel to which such signal is given that such vessel must stop and not proceed farther toward the position where such lights are displayed.

Rule 10.—No vessel or raft shall anchor in any of the improved channels now abreast of the government piers at Sault Ste. Marie, except in distress or during a fog, and any vessel so anchored must always shift her anchorage when so directed by the officer in charge of a patrolling vessel to the spot designated by such officer.

Rule 11.—Vessels navigating the St. Mary's river may anchor between Point Detour and Mud lake turning buoy, and at Sailors' Encampment close to the wharves of the sawmill. In Hay lake between the Neebish and Little Rapids channel outside of the channel as indicated by the ranges, but nothing in this rule shall be construed to prohibit any vessel from lying alongside of any wharf in said river.

Rule 12.—Rafts being towed in the St. Marys river will be required to use what is termed the "old channel." From Harwood point to Mud lake turning buoy they will move at the time designated by the officer in charge of the patrolling vessel. When lying by they must be moored out of the channel.

Rule 13.—In navigating the St. Marys river, in all cases where the foregoing rules are not applicable, the attention of masters and pilots is called to the sailing rules contained in the act of congress of Feb. 8, 1895.

Rule 14.—All vessels navigating the St. Marys river, in passing dredges and vessels at work on improvements to the channel, will be required to slacken their speed upon such dredge or other vessels engaged in such improvement giving the signal of three distinct blasts of the steam whistle.

Rule 15.—The pilot of every steamer descending the St. Marys river shall, when abreast of the Dark Hole gas buoy, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which signal shall be answered by a blast of the steam whistle of the same duration by any vessel ascending said river within hearing. The pilot of every steamer ascending said river, not having heard such signal from a descending steamer, shall, when abreast of Everens point, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which shall be answered by a blast of the same duration by any vessel descending said river within hearing. After such signal of one blast of the steam whistle of 10 seconds' duration shall have been given and answered, the usual passing signal must be given.

Rule 16.—When a steamer, and tug towing scow from dredge at work deepening channel in Little Rapid cut, shall be moving in same direction, steamer may pass westward of tug providing former gives customary signal for steamer when passing another steamer moving in same direction, and this signal is answered by tug.

The tug will, however, keep well over to eastern side of channel as steamer passes. But overtaking steamer shall not pass tug towing scow if steamer be approaching in opposite direction so as to make three

vessels abreast when thus passing.

Rule 17.—No steamer stemming the current through the Dyke and island cut shall be allowed to tow more than one vessel without the aid of a tug, unless such steamer has the power to move the tow over the ground at the rate of at least 3 miles an hour.

Rule 18.—Whenever vessels are compelled, by reason of an obstruction in any of the channels of the St. Marys river to collect in certain parts of the river, the revenue cutter officer in charge shall direct where such vessels shall be moored and anchored, and no vessel moored or anchored, by reason of such obstruction, shall move, until directed by the revenue cutter officer in charge.

Rule 19.—Whenever at Johnston point, Sailor's Encampment, a red ball under a white ball by day or two red lights under a white light by night shall be displayed to indicate that a steamer with a tow is bound down, a steamer bound up below Johnston point shall navigate with caution.

Rule 20.—No. steamer navigating the St. Marys river, either ascending or descending, shall pass another steamer or steamers moving either in the same or opposite direction, in such a position that more than two steamers shall be abreast of each other when thus passing. In case three steamers are liable to pass in a position where more than two of them will be abreast in passing, the overtaking steamer shall check its speed within a quarter of a mile of the overtaken steamer in order to avoid passing in such position.

Whenever a steamer bound down the St. Marys river in the daytime enters the Dark Hole and a steamer bound up is approaching Johnston's point a white ball will be displayed on a pole at Johnston's point, Sailors' Encampment, in said river, until the steamer is abreast of Johnston's point, and whenever a steamer having a vessel or vessels in tow bound down in the day time enters the Dark Hole and a steamer bound up is approaching Johnston's point a red ball will be displayed under the white ball on the pole until the steamer is abreast of said point.

Whenever a steamer bound down said river at night enters the Dark Hole and a steamer bound up is approaching Johnston's point a white light over a red light will be displayed on said pole; and whenever a steamer bound down said river at night having a vessel or vessels in tow enters the Dark Hole and a steamer bound up is approaching Johnston's point a white light with two red lights under it will be displayed on said pole.

No flags or lanterns, however, will be displayed for tugboats without tows or for small vessels.

SCHEDULE OF TIME TO BE RUN IN CERTAIN PARTS OF ST. MARY'S RIVER.

For the facilitation of speed calculations in connection with the rules and regulations governing the movements and anchorage of vessels in St. Mary's river, the treasury department publishes the following schedule

of distances between certain points along the St. Mary's river, together with the time required to run those distances at a speed of nine miles an hour:

Sections.	Distance in statute miles.	Time in minutes.
Mud lake buoy to Everens point	25/8	171/2
Everens point to Encampment crib light		5
Encampment crib light to Dark Hole turn	l 15/6 /	11
Dark Hole turn to Harwood point turn	31/4	211/3
Harwood point turn to junction buoy, Hay lake	3¼ 3¼ 2¾	21 3/3
Junction buoy to upper lights, lower cut	23/4	183
Lower cut to Frechette cut, full speed	1	
Lower range, Frechette cut, to red can buoy	ĺ 1½/ĺ	10
Red can buoy to lower light, Little Rapids	11/2	10
Lower light to north entrance light-house		10
North entrance light-house to government pier	156	11
West end of piers to Big point	21/4	15
Big point to Pointe aux Pins light-house		21 3/3
Through Dike	1 112	71/2
Through island cut	11/8	71/2
Least towing time allowed vessels bound up through		1/2
Dyke and island cut		221/2

All complaints or appeals arising under the foregoing rules and regulations will be made to the officer commanding the United States revenue cutter, having charge of their enforcement.

#### APPOINTMENTS OF MASTERS OF LAKE VESSELS.

#### List of Captains arranged according to name of vessel.

```
Str. Aberdeen, William Dulmage.
Bge. Aberdeen, J. C. Perron.
Sch. Abyssinia, T. K. Woodward.
Str. Acadian, James Black.
Bge. A. D., M. Lague.
Str. Ada Alice, W. Miner.
                                                                                                                              Str. Baker, George F., George A.
                                                                                                                              Str. Barlum, John J., M. J. McIn-
                                                                                                                                                            tosh.
                                                                                                                                    Str. Barlum, Thomas, A. J. Mahon. Sch. Barnes, Bertha, P. Lenane My-
sge. A. B., M. Lague.
Str. Ada Alice, W. Miner.
Str. Ada Alice, W. Miner.
Str. Admiral, William Jagenow.
Str. Advance, Martin Olsen.
Str. Advance, Martin Olsen.
Str. Alexandria, James S. Neal.
Str. Alexandria, James McCannel.
Str. Albright, J. J., J. Autterson.
Str. Aletha, M. Palmatier.
Str. Aletha, M. Palmatier.
Str. Alexandria, Joseph Rinfut.
Str. Algomah, G. W. Boynton.
Str. Algonquin, Fred R. Johnson.
Sch. Allegheny, W. H. Bridges.
Bge. Aloha, A. B. Scott.
Str. Alpena, D. R. Parsons.
Str. Alva, J. H. Madden.
Str. America, R. H. Carnegie.
Str. America, A. G. Tappan.
Str. Americana, George S. Riley.
Str. Anderson, Alex., J. K. Edwards.
Str. Anderson, Alex., J. K. Edwards.
                                                                                                                          ers.

Str. Barth, L. L., Thomas Heffernan.
Tug Bartlett, Luke Mallan.
Str. Bartow, J. H., A. E. White.
Str. Beard, James, George Waugh.
Str. Beleville, C. Redfearn.
Bge. Bell, Sir I. L., C. Mulholland.
Tug Bennett, J. W., P. C. Batchelor.
Str. Bennington, W. S. Shay.
Str. Bermuda, H. M. Russell.
Str. Berthier, A. Mondor.
Str. Bessemer, Sir Henry, W. S.
Hoag.
                                                                                                                                                            Hoag.
                                                                                                                                  Str. Bickerdike, Oliver Patenaude.
Str. Bielman, C. F., John T. Hanson.
Str. Bielman, C. F., Jr., John G.
                                                                                                                                                           Ivers.
                                                                                                                                   Str. Binghamton, Sam Smith.
Str. Bixby, W. K., Scott B. Worden.
Str. Black, Clarence A., Andrew Han-
  Sch. Anderson, Alex., J. K. Edwards.
Str. Ann Arbor No. 1, C. Fredrick-
                                                                                                                                   Str. Black Rock, John F. Hansen.
Str. Bluebell, R. Williams.
Str. Boland, John J., John O. Hagan.
Str. Bon Ami, C. B. Hart.
  Str. Ann Arbor No. 2, B. F. Tul-
                          ledge. `
                                                                                                                                   Str. Bon Ann, C. B. Hall.
Tug Bonita, Charles Morrison.
Str. Boston, John Wulke.
Str. Bothnia, Antoine Monpetit.
Bge. Bottsford, R., A. D. Sheldon.
Str. Boucherville, A. Laviolette.
Sch. Boyce, George J., Louis Fred-
  Str. Ann Arbor No. 3, A. L. Larson.
Str. Ann Arbor No. 4, F. A. Robert-
 Str. Annie Laura, D. O. Lockhart.
Str. Arabian, J. E. Mann.
Tug Arctic, B. Sniffen.
  Bge. Arenac, Robert Taylor.
Str. Argo, George Cottrell.
                                                                                                                                                            rickson.
                                                                                                                                    Str. Boyce, Isabella J., John C. Prin-
  Str. Arrow, Harry Tyrie.
Str. Arundell, George F. Recor.
Tug Ashland, Manning Kilton.
                                                                                                                                    Str. Boyce, Mary H., Anton Chris-
                                                                                                                                                            tenson.
                                                                                                                                   Bge. Brake, William, Peter La Croix.
Str. Brazil, William Mackin.
Str. Britannia, Robert E. Ferguson.
Str. Britannic, E. H. Doris.
Str. Briton, F. W. Light.
Tug Bronson, H. F., J. B. Desgro-
  Str. Ashtabula, B. F. Haagenson.
  Str. Assiniboia, Louis Pyette.
  Str. Athabasca, Alex. Brown.
  Str. Averell, William J., John Pow-
  Str. Avon, George P. Clifford.
                                                                                                                                                           seillier.
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Str. Brown, Fayette, D. Girardin, Jr. Str. Brown, Harvey H., D. Girardin. Str. Brown, J. H., F. D. Chamber-

Bge. Bryn Mawr, George B. Kendall. Bge. Buckly, James, Narcisse La-

Str. Buell, F. R., C. W. Woodgrift.
Str. Buffalo, J. D. Osborne.
Sch. Buffalo, K. Pederson.
Str. Buffington, E. J., Richard Jollie.
Str. Bunsen, R. W. E., J. T. Gem-

Str. Burlington, W. H. Williams.
Sch. Burma, J. Ferguson.
Str. Burnham, Geo., Edward Carns.
Sch. Butcher Boy, Hans Hansen.
Str. Butler, Joseph G., Jr., James Murphy.

Bge. Cahoon, T. H., James Hall. Str. Caledonia, James Heffernan. Sch. Calkins, Bertie, John Guild. Str. Calumet, Harry Howard. Str. Cambria, David Bouille.

Str. Cambria, David Bouille.
Str. Canadian, John Whiteside.
Str. Canisteo, J. M. Shackett.
Str. Carbray, Felix, James Beauvais.
Str. Carolina, Con McCauley.
Sch. Carrey, M., H. Tracey.
Bge. Carrington, H. M. Saveland.
Str. Carter, E. D., C. H. Wilson.
Str. Carter, W. J., William Ziem.
Str. Caspian, William Bloomfield.
Str. Catract, Leon Prejent.
Str. Cayuga, John McGiffin.

Str. Cayuga, John McGiffin. Sch. Ceylon, C. Beaupre.

Str. Chamberlain. Č. W., Bert Burke.

Str. Chemung, Frank R. Gebhard. Str. Cherokee, James Marra.

Str. Chicago, C. C. Fowler.

Str. Chicago, H. Murphy.

Bge. Chickamauga, Harry W. Phil-

Str. Chicora, H. W. King. Str. Chieftain, C. E. Phelix.

Str. Chili, M. F. Morgan.

Str. Chipman, Susie, N. A. Gunder-

Str. Chippewa, C. J. Smith.

Str. Chippewa, William McCarty.
Sch. Chippewa, John McKeighan.
Str. Chisholm, A. S., D. Henderson.

Str. Christie, T. S., P. Larsen.

Str. Christopher Columbus, Charles E. Moody.

Str. City of Alpena, Mathew Lightbody. Str. City of Bangor, George Trimble.

Str. City of Belleville, A. Black.

Str. City of Benton Harbor, A. J. Simons.

Str. City of Buffalo, W. H. Smith. Str. City of Chicago, William J.

Russell.

Str. City of Cleveland, A. J. McKay.
Str. City of Detroit, A. McLachlan.
Str. City of Erie, H. McAlpine.
Str. City of London, Arnold Green.
Str. City of Mackinac, F. J. Simp-

Str. City of Midland, M. A. Liv-

ingston.

Str. City of Montreal, A. Lefebvre.
Str. City of Ottawa, J. V. Trowell.
Str. City of Racine, William Plum-

Str. City of St. Ignace, John Light-

body. Sch. City of Sheboygan, Peter Peter-

Str. City of the Straits, Salem Rob-

inson. Str. City of Toledo, John J. Stover. Str. City of Traverse, Edwin Wil-

liams.

Sch. Clara, Hugh McKinnon.

Str. Clarion, Thomas J. Bell.
Str. Clark Bros., I. G. Pratt.
Str. Clark, E. A. S., J. B. Lowe.
Str. Clement, S. M., H. H. Town-

Str. Clinton, John Steible. Str. Codorus, L. Wright. Str. Coffinberry, H. D., George Forrest.

Str. Cole, Thomas F., J. W. Morgan. Str. Colgate, J. B., John McGarry. Str. Collingwood, F. A. Bassett.

Str. Colonel, A. Ames.
Str. Columbia, Charles Eber.
Str. Columbia, Charles Frame. Str. Columbia, John Wilkinson.

Tug Columbus, Thomas Ganley. Str. Commerce, Edward McNutt.

Sch. Commodore, Frank F. Desot. Tug Commodore, W. Schade.

Str. Conger, O. D., William S. Major.

Bge. Constitution, P. A. Peterson.

Tug Cooper, A. Lawson.
Str. Coralia, W. H. Campau.
Str. Corey, William E., F. A. Bailey.
Bge. Corliss, George H., George W. Balfour. Str. Cornelius, Adam E., H. J. Hutchins. Str. Cornell, W. H. Kilby.
Str. Corona, J. A. Ferguson.
Str. Corona, William Malcolm.
Str. Corsica, W. E. Stover.
Str. Cort, Henry, C. S. Boyce.
Str. Coruna, D. C. McLachlan.
Str. Coulby, Harry, Alex Forbes.
Str. Cowle, John B., William McAlpine. Str. Craig, George L., D. J. Duncan.
Str. Crescent City, Frank Rice.
Str. Crete, W. A. Williams.
Bge. Crete, George Mackie.
Str. Crowe, G. R., Peter J. Shaw.
Str. Cuddy, Loftus, H. A. Stewart.
Bge. Cutler, D. G., A. Brant.

Bge. Dayton, R. Briggs.
Str. Delaware, Charles Nelson.
Bge. Detta, John Bates.
Str. Desmond, J. B. Watts.
Str. Detroit, A. J. Huntoon, Fred

Huntoon.

Str. Dewar, John D., John Smith.
Bge. Diamond, Z. Monette.
Str. Dinkey, Alva C., W. J. Hunt.
Bge. Dohelty, Mike, Martin Tolifson.
Bge. Donaldson, W. A. Fetterly.
Str. Donaldson, John A., Thomas Beggs.

Str. Donaldson, J. P., Charles Ratt-

Str. Donnaconna, J. W. Mawdesley. Bge. Doric, Samuel Hill. Str. Dormer, Grace, F. Duffy. Str. DoVille, R. E., Frank Lamb.

Tug Dragon, Alexander Clifford.
Tug Dreadnaught, J. Jones.
Str. Duchess of York, E. P. Shep-

herd.

Str. Duluth, A. R. Graves. Str. Duluth, S. R. Jones.

Str. Duluth, S. R. Jones.
Str. Dundee, H. Zealand.
Str. Dundurn, R. Cooney.
Str. Dunelm, A. Albinson.
Str. Dunn, John Jr., J. H. Driscoll.
Sch. Dunn, S. H., John Cornwall.
Str. Durston, J. F., F. H. Reid.
Str. Dussault, D., John Moesing.

Str. Eads, James B., George Randolph.

Str. Eastern States, Duncan Mc-Lachlan.

Str. Eddy, Selwyn, A. M. Williams. Str. Edenborn, William, Charles

Gegenheimer. Str. Edmonton, H. Maitland. Str. Elba, C. H. Woodford.

Bge. Eleanor, Fred Chamberlain.
Str. Ella G., David F. DoVille.
Str. Ellen, M. Dailey.
Str. Ellwood, Isaac L., C. H. Cummings.

Str. Elva, W. J. Stewart.

Tug Emerson, George, Fred Frech. Str. Empire City, James Burr. Str. Empress, Fred Elliott. Str. Empress of Midland, Isaac

Woolner.

Str. England, R. W., R. W. England.
Str. Ericsson, John, T. J. Cullen.
Bge. Ewen, F. D., Aime Monette.
Str. Excelsior, Arch J. Bain.
Bge. Exile, C. E. Garey.

Str. Fairbairn, Sir William, George

W. McCallum.

Str. Fairmount, Peter C. Telfer.

Str. Fischer, S. M., M. J. Emerson.

Str. Fitch, W. F., V. L. Hosner.

Str. Flagg, George A, George B.

Brook.

Brook.

Str. Fletcher, F. W., A. E. Anderson.
Str. Flint, O. T., J. U. Sinclair.
Str. Florence, W. J. Stitt.
Str. Ford, J. C., James McLarty.
Sch. Ford River, C. Daryaw.
Str. Fortune, H. A. Pocock.
Str. Foster, Parks, Edgar Hough.
Bge. Francomb, J. O. Roberson.
Str. Frick, H. C., Neil Campbell.
Bge. Fritz, John, J. Y. Sprowell.
Tug Frontenac, J. Harris.
Str. Fryer, R. L., George J. Bennett.
Str. Fulton, Robert, C. G. Ennes.

Str. Garden City, J. Maddock.

Str. Garden City, J. Maddock.
Str. Gargantna, James Dix.
Str. Garland, Juomas Ellis.
Str. Gary, E. H., W. H. Moody.
Str. Gates, J. W., James A. Walsh.
Str. Gayley, James, M. M. Stewart.
Sch. Gebhart, A., R. Harris.
Sch. Genoa, D. C. Ryan.
Str. Georgia, T. G. Baldwin.
Str. Germanic, F. G. Moles.

Str. Germanic, F. G. Moles.

Str. Gettysburg, Norman McGuire.
Str. Gilbert, W. H., A. W. Burrows.
Tug Gillen, R. Church.
Str. Glenellah, George Mackey.
Bge. Glengarry, A. Robineau.
Str. Glenmount, John Wood. Tug Glide, Miles Murphy. Bge. Godfrey, Jeremiah, James Hamilton. Str. Gogebic, A. C. Neal. Bge. Golden Age, Walter Stalker. Str. Goodyear, Frank H., F. R. Hemenger. Str. Grammer, G. J., Thomas Burns. Str. Grand Haven, S. O. Marsh. Str. Gratwick, W. H., No. 1, Herman Bennett. Str. Gratwick, W. H., J. D. Baird.
Str. Great Western, Michael Bausetto.
Str. Green, C. H., C. E. Little.
Str. Greyhound, Thomas Meikleham.
Str. Griffin, George M. Ackley. Str. Hackett, J. H., Joseph Thebault.
Str. Hackett, William, M. Allison.
Sch. Hackley, C. H., Nels G. Norem.
Str. Haddington, George J. Motley.
Str. Hall, Henry B., S. V. Anderson.
Tug Hall, Jessie, D. A. Williams.
Tug Hall, Mary P., William J.
Murphy Str. Hallan, John, W. Joyce.
Str. Hamonic, R. D. Foote.
Str. Hanna, D. R., Sam B. Massey.
Str. Hanna, Howard M., Jr., Thomas Wilford. Str. Hanna, L. C., M. Anderson.
Str. Hanna, M. A., R. O'Connor.
Str. Harlow. William J. Harlow.
Str. Hart, Eugene C., Jake Roulette.
Str. Hart, Fannie C., Gus Le Comte.
Bge. Hartnell, George E., Joseph Sanders. Str. Harvard, A. R. Robinson. Str. Haskell, W. A., Stanley Mc-Queen. Str. Hayward, A. D., George C. Bge. H. B., Alfred Lalonde.
Str. Hebron, F. P. Eligh.
Str. Hecla, Joseph Richard.
Bge. Helen, C., Peter G. Young.
Bge. Helvetia, W. P. Johnson.
Str. Hemlock, John McNeut.
Str. Hennepin, George Coon. Burns.

Str. Hiawatha, E. M. Thomas.
Str. Hill, J. J., A. J. Talbot.
Str. Hilton, Rudolf Reiboldt.
Str. Hines, L. Edward, K. McKenzie,
Bge. Hoboken, Harry G. Storey.
Str. Holcomb, Ralph T., Edmund Groulx. Str. Holden, H. S., G. E. Anderson.
Str. Holland, John Stewart.
Str. Holland, Robert, A. T. Young.
Bge. Holley, Alex, Frank Hebner.
Str. Holmes, J. A., E. Erickson.
Str. Hopkins, A. L., Alfred Dixon.
Str. Houghton, Douglas, John F. Str. Hubbard, Charles, C. Z. Montague. Bge. Hurd, Joseph L., Albert Blasier. Str. Huron, M. C. Cameron. Str. Huron, Oscar Lalonde, Alex Baillargeon.
Str. Huron, R. C. Patterson.
Str. Huronic, A. L. Campbell.
Str. Hutchinson, J. T., John A. Logan. Sch. Hutt, Hattie, Frank Granville. Str. Imperial, Norman Scott. Str. India, Charles Coons. Str. Indiana, Edw. Taylor. Str. Indiana, Edw. Taylor.

Bge. Interlaken, Fred Nelsen.

Str. Iona, Ben Bowen.

Str. Ionia, William McLean.

St. Bge. Ionic, M. Ironsides.

Bge. Ireland, Alderic Derocher.

Str. Iron Age, W. J. Willoughby.

Sch. Iron Cliff, James Richardson.

Str. Iron King, James Ross.

Bge. Iron Oueen. D. A. Maynes. Str. Iron Queen, D. A. Maynes.
Str. Iroquois, Charles E. Robinson.
Str. Islander, John Bertrand.
Str. Islander, A. Vallier.
Str. Island Queen, H. McSherry.
Str. Italia, Hugh McCann. Bge. Jackson, G. K., E. M. Goodwin. Str. Japan, Henry Cronkhite. Bge. Jenney, William LeB., O. W. Holdridge. Tug Johnston, William Phelix.
Str. Joliet, John F. Gray.
Str. Jones, B. F., C. M. Ennes.
Sch. Judd, E. T., H. N. Jex.
Str. Juniata, Edward Martin
Str. Juno, John Fahey.

Str. Kaministiquia, I. A. Thompson. Tug Kate, J. P. Ramsay. Str. Kathleen, M. Osborne. Bge. Katie H., G. Hurteau. Str. Kearsarge, William Baxter. Str. Keewatin, Malcolm McPhee. Sch. Keewatin, James Doherty. Bas. Keith Lid. Robert Robidus Str. Luella, J. E. Wright.
Str. Luzon, W. W. Wilkins.
Str. Lycoming, William J. Hayes.
Str. Lynch, Thomas, E. M. Smith.
Str. Lyon, Charles, Wilnam Henry.
Sch. Lyon, Mary, George Abbott. Sch. Keewaln, James Donetty.

Bge. Keith, Ida, Robert Robidue.

Bge. Kelley, Norman, J. D. Todd.

Str. Kendall, H. J., H. J. Kendall.

Str. Kenmount, Alex Milligan.

Str. Kennedy, Hugh, C. B. Galton.

Str. Kensington, James Herbert.

Str. Ketcham, John B., 2d, N. L.

Morrison Str. McDougall, Alex, John Nahrstedt. Str. McGean, John A., Charles A. Benham. Str. McGregor, Mary A., Henry Brock. Str. McKee, J. A., W. J. Bassett. Bge. McLachlan, Mary E., Alex Shambleau. Morrison. Str. McLouth, Sudney C., W. W. Tug Kinch, William H., William G. Shorkey. Fox. Tug McNaughton, Pliny B., Thomas Fox.

Str. King Edward, William Bemrose.

Str. Kingston, Henry Esford.

Str. Kirby, Frank E., A. J. Fox.

Str. Kirby, S. R., W. L. Girardin.

Sch. Kitchen, J. B., H. Daryaw.

Bge. Klondyke, H. Letour.

Bge. Knapp, F. M., John Booth.

Str. Kongo, A. H. Shafer.

Str. Kopp, Jacob T., M. S. Petersen.

Bge. Krupp, Alfred, F. H. Rae. Green Str. McVea, Charles, P. S. Roulett. Sch. McWilliams, Ed., William McCarty. Str. McWilliams, J. I., M. Walle. Str. Macassa, James Henderson. Str. Mackinac, John McCarty. Bge. Magna, H. M. White. Bge. Magna, H. M. White.
Tug Magnolia, Alex Cuff.
Str. Mahoning, George Delaney.
Bge. Maia, J. H. Dissette.
Bge. Maida, A. Nordall.
Str. Maine, William Booth.
Sch. Maitland, A., A. J. Green.
Str. Majestic. W. G. Cox.
Str. Major, W. Rouvel.
Str. Malietoa. R. F. Humble.
Bge. Malta, Charles Gordon.
Str. Manchester, E. Zwemer.
Bge. Manda, H. Harris, Jr.
Bge. Manilla, Alfred Beaupre. Str. La Belle, B. W. Landfair. Str. Lagonda, E. Johnston. Sch. Lake Forest, Christ Nerdrum. Str. Lake Michigan, Charles Millard.
Str. Lakeside, J. C. Fox.
Str. Lakeside, T. Runciman.
Str. Langdon, J. R., John Smith.
Str. Langell Boys, Bert Payea. Bge. Manda, H. Harris, Jr.
Bge. Manda, H. Harris, Jr.
Bge. Manilla, Alfred Beaupre.
Str. Manitoba, John McIntyre.
Str. Manola, W. J. Story.
Bge. Marcia, A. S. Hand.
Str. Maricopa. C. A. Weitzman.
Str. Maricopa. C. A. Weitzman.
Str. Maricopa. C. A. Weitzman.
Str. Marion, H. J. Nelson.
Str. Marion, H. J. Nelson.
Str. Marisha, A. R. Thompson.
Str. Maritana, S. E. Meeker.
Str. Maritana, S. E. Meeker.
Str. M. & B. No. 1, M. M. Rowan.
Str. M. & B. No. 2, R. R. McLeod.
Bge. Marsala, James N. Ames.
Str. Marshall, Maggie, Andrew Olson.
Str. Marshall, Maggie, Andrew Olson.
Str. Marshall, Samuel, James Martin.
Bge. Martha, William McDonald.
Str. Maruba, Dan McGillivray.
Bge. Marvin, S. E., Fred Anderson.
Str. Mary, Alphonse Lepuie. Str. Langell, Simon, Guy Geel. Str. Landsdowne, John Jackson, Hy Oldenberg. Str. Laprairie, J. Lacouture. Str. LaSalle, F. D. Selee. Str. Laura D., C. P. Sharbno.
Str. Leufield, F. J. Davis.
Str. Lehigh, Frank Bloom. Str. Leuty, D., Wallsce E. Smith.
Str. Lewiston, Olaf Nelson.
Str. Liberty, William Turnbull.
Str. Linden. William J. Cowles.
Str. Linn, William R., George H. Banker. Str. Livingstone, William, William Morehead. Sch. Locke, P. B., B. McIntyre. Str. Longueuil, H. Mandeville.

Str. Louisiana. ...cnard Neville. Bge. Lozen, J. B. J. F. Lozen.

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Str. Mary, A. Harrington.
Str. Mary, John Pierson.
Str. Mary H., John E. Hess.
Str. Maryland, T. Kelley.
Str. Masaba, E. L. Sawyer.
Str. Mataafa, H. J. Regan.
Str. Mather, Samuel, L. W. Stone.
Str. Mather, Samuel, W. F. Hormig.
Sch. Mathews, Jennie, F. D. Linn.
Str. Matoa, Thomas Wilson.
Str. Matthews, W. D., John Williams
                                                                                                                                                    Str. Mullen, Martin, U. S. Couy.
Str. Muncy, Angus M'Kenzie.
Str. Murphy, Simon J., George H.
                                                                                                                                                                               Bowen.
                                                                                                                                                    Str. Murray Bay, W. Gagne.
Tug Myra, William McKenna.
                                                                                                                                       Bge. Naiad, Joseph Glass.
Bge. Naimyth, James, W. H. Dick.
Str. Neebing, John Ewart.
Str. Neepawah, James Woolner.
Str. Neff, Charles S., J. A. Doak.
Str. Neff, S. O., John Eble.
Str. Neilson, I. B., George Holdridge.
Tug Nelles, Thomas Carey.
Str. Nessen, N. J., Christ Edwardson.
Str. Nettleton, A. E., R. J. Lyons.
Str. Nevada, J. Cavanagh.
Str. New Island Wanderer, William
C. Hudson.
Str. New York, M. W. Humphrey.
Str. Maud, Charles Weitzman.
Str. Maunaloa, J. A. Laframboise.
Str. Mayflower, G. Moulton.
Str. Meaford, F. Scott.
  Bge. Menominee, A. Demers.
 Tug Mentor, Frank Freschette.
Str. Mercur, Fred, W. A. Russell.
Sch. Merrill, Julia B., William Mc-
                                                                                                                                                   Str. New York, M. W. Humphrey.
                            Quinn.
Quinn.
Str. Miami, H. Huyser.
Str. Michigan, Charles Jenking.
Str. Midland King, James Tindall.
Str. Midland Prince, G. W. Pearson.
Str. Midland Queen, William Lavigne.
                                                                                                                                            Str. New Fork, M. W. Human
Str. Niagara, A. Forrest.
Str. Niagara, A. I. Thompson.
Str. Nicaragua, James Owens.
Str. Nipigon, J. W. Goodrich.
Str. Normandie, F. O. Johnson.
Str. Normania, Oscar Olsen.
 Str. Milinokett, Forrest Maloney.
  Str. Miller, P. P., Frank Wein-
                                                                                                                                               · Bge. Norris, Alice B., Alfred Ger-
heimer.

Str. Mills, David W., Dan Warwick.

Str. Mills, D. O., D. H. Mallory.

Str. Mills, Robert, C. F. Miller.

Str. Milwaukee, John Fisher.

Str. Milwaukee, C. A. Lyman.

Sch. Minerva, Hans Petersen.

Str. Mitchell, Samuel, William Hagan.

Bge. Mingoe, A. B. Scott.

Str. Minneapolis, W. D. McClinton.

Str. Modjeska, P. Walsh.

Str. Mohawk, John Kennedy.

Str. Mohegan, James Cunningham.
                          heimer.
                                                                                                                                                                               main.
                                                                                                                                                   Str. Northern King, E. C. Leath.
Str. Northern Light, Peter Hay.
                                                                                                                                                    Str. Northern Queen, George
                                                                                                                                                                               Crawford.
                                                                                                                                                  Str. Northern Wave, Neil Andersen.
Str. North King, John Jarrell.
Str. North Lake, Peter Thompson.
Str. North Land, J. I. Hartman.
Str. North Sea, E. B. Blair.
Str. North West, G. A. Minar.
Str. North Wind, Thomas Stevenson.
Str. Norton David Z. John H.
 Str. Mohegan, James Cunningham.
Str. Moll, Clifford F., M. Christy.
                                                                                                                                                   Str. Norton, David Z., John H.
                                                                                                                                                                              Babbitt.
 Str. Monteagle, Stephan M. Murphy.
Str. Montreal, F. X. Lafrance.
Str. Moore, John W., J. L. Brad-
str. Moore, John W., J. L. Bradshaw.
Bge. Moore, W. K., Joseph Thody.
Bge. Moran, David, C. Smith.
Str. Morgan, J. P., A. P. Chambers.
Str. Morley, W. B., Arthur Sturgis.
Str. Morrell, D. J., P. L. Millen.
Str. Morse, Jay C., A. H. Reed.
Str. Morse, S. F. B., M. K. Chamberlin.
 Str. Mount Stephen, William Cun-
                            ningham.
 Str. Mueller, Frank Elliott.
Str. Mulinix Bros., John W. Mulinix.
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Str. Princess, W. F. Halcro. Str. Princeton, John W. Burns. Str. Promise, D. Jacques. Str. Pueblo, T. E. Clark. Str. Osler, E. B., William H. Wright. Str. Ossifrage, T. J. Stockwell. Str. Otego, M. E. Myers. Str. Otis, John, E. J. Donoghue. Str. Ottawa, Alex Birnie.
Str. Ottawa, Alex Birnie.
Str. Ottawan, George Depencier.
Sch. Our Son, M. T. Ryan.
Str. Owana, Joseph Klingler.
Str. Owego, George W. Moore.
Str. Owen, John, H. T. Archer. Str. Puritan, W. A. Boswell. Str. Quebec, Capt. Temers. Bge. Quebec, Robert Siddell. Str. Queen City, A. C. Smith. Sch. Quickstep, James Erickson. Str. Pahlow, Louis, John F. Higgie. Str. Paine, William A., Emil Detlefs. Str. Paliki, R. H. Boyle. Str. Ramapo, J. A. McDonald. Str. Ramona, E. M. Charlebois. Str. Rand, M. Shaw. Str. Palmer, W. P., Allen Collins. Str. Panay, G. H. Wilson, Jr. Str. Parks, O. E., O. E. Parks. Str. Ranney, Rufus P., Henry W. Stone. Str. Rapids King, George Batten. Str. Rapids Queen, J. P. Stephenson. Str. Ream, Norman B., A. C. Chap-Str. Parthia, D. LeFave. Str. Pathfinder, Ralph Nutting. Str. Pawnee, James Cassin. Str. Peck, E. M., Herbert Dupuie. Str. Pellatt, H. M., W. H. Anderson. Bge. Pellett. James H., William man. Str. Recor, E. P., Andrew Geisendorfer. dorfer.

Bge. Redfern, C. E., Eli Jacques.

Str. Regina, Peter McKay.

Str. Reis, W. E., W. J. Tomlin.

Str. Reliance, John Hudgins.

Tug Reliance, J. W. Darling.

Str. Rensselaer, C. J. Grant.

Str. Republic, A. McArthur.

Str. Rhoda, Emily, H. Huyser.

Bge. Rhodes, D. R., Thomas Mc-Kelley. Str. Penobscot, M. H. Mahon. Str. Pere Marquette 3, J. W. Brooks. Str. Pere Marquette 4, Melvin Mackey. Str. Pere Marquette 5, Frank Dority. Str. Pere Marquette 6, Michael Martin. Str. Pere Marquette 14, George R. Gowan. Str. Rhodes, Joshua W., E. L. Ennes. Str. Rhodes, W. C., Walter Robinson. Str. Richardson, W. C., Enos J. McPherson. Str. Pere Marquette 15, Neil Mc-Isaacs. Str. Pere Marquette 17, Joseph Burke. Str. Rideau King, William Scott. Russell. Str. Pere Marquette 18, Peter Kilty. Str. Pere Marquette 19, William H. Str. Rideau Queen, E. Fleming. Str. Robeins, F. L., A. J. Greenley.
Str. Roberts, John, A. Warrender.
Bge. Rob Roy, Henry Brooks.
Str. Rochester, Robert Murray.
Str. Rockefeller, Frank, A. G. Mc-La Fleur. Str. Pere Marquette 20, J. C. Ackerman. Str. Perkins, G. W., F. J. Crowley. Str. Peters, Andrew Olsen. Leod. Str. Phipps, Henry, W. B. Mac-Bge. Roebling, John A., W. F. Cot-Gregor. Str. Pierrepont, James F. Allen. Str. Pleasure, John J. Densteadt. Str. Plummer, J. H., William Mc-Str. Rogers, H. H., S. C. Allen. Str. Ralph, John, W. E. Van Vlack. Str. Roman, H. Walper. Str. Roosevelt, Theodore, Donald Lean. Str. Poe, Gen. O. M., W. C. Iler. Str. Pollock. W. G., Clarke Byers. Str. Pope, E. C., Roy M. Leonard. MacLean. Str. Rosedale, J. L. Baxter. Str. Roumania, R. B. Walker. Str. Rosemount, James Reoch. Str. Porter, Lloyd S., M. Heffernan. Str. Prescott, J. McGrath.
Str. Primrose. T. Jennings.
Str. Prince, F. H., George Kinch.
Str. Prince Rupert, A. H. Malone.

Str. Sachem, W. W. Randall.

Str. Rugee, John, D. Hourigan, Str. Rutland, W. H. Plumb.

Bge. Sagamore, R. A. Mallory. Str. Soper, Albert, Gus Claussen. Str. Sage, Russell, Henry Russell. Str. Sailor Boy, L. N. Madsen. Str. Sainte Ignace, A. H. Boynton. Str. Sainte Marie, L. R. Boynton. Str. St. Irenee, J. E. Dugal. Str. St. Lawrence, Charles H. Kendall. Str. St. Louis, A. Hartwell. Str. St. Louis, A. Hartwell.
Sch. St. Louis, George Williamson.
Str. St. Paul, Iver Rolseng.
Str. Sanders, W. B., J. H. Wysoon.
Bge. Santiago, C. H. Van Gorder.
Str. Sappho, George Cruikshank.
Str. Saronic, A. M. Wright.
Str. Saugatuck, John Campbell.
Tug Savidge, Hunter, Henry Danforth forth. Str. Sawyer, Philetus, Sam Anderson. Str. Sawyer, W. H., M. Canartney. Str. Saxon, George W. Ames. Str. Schlesinger, F., E. H. Brownell. Str. Schroeder, John, W. E. Stufflebeam Str. Schuylkill, Joseph Corcoran.
Str. Scotsman, A. G. Clark.
Str. Scottish Hero, Peter McIntyre.
Str. Scranton, Walter, R. Z. Utley. Str. Seguin, James Wilson.
Str. Seguin, James Wilson.
Str. Sellwood, Joseph, R. C. Jackson.
Str. Senator, W. K. Nesbitt.
Sch. Sephie, Peter McKinnon.
Tug Seymour, G. D., P. J. McGrath.
Str. Shaw, Howard L., H. Culp.
Str. Sheboygan, A. Voight.
Sch. Sherman, Walter A., M. Houri-Str. Shores, Adella, S. Holmes. Str. Shores, E. A., Jr., John A. Miller. Str. Siemens, Sir William, W. P. McElroy. Str. Simla, P. Sullivan. Sch. Sligo, D. McVicar. Bge. Smeaton, John, J. R. Parker. Tug Smith, Annie L., Eli Jacques. Str. Smith, B. Lyman, C. D. Woodward. Str. Smith, Edward, C. D. Miller. Str. Smith, Hurlbut W., Stalker. Str. Smith, L. C., William H. Blatt-Str. Smith, Lyman C., W. D. Ames. Str. Smith, Monroe C., W. G. Rogers. Tug Smith, S. Barnard.
Tug Smith, T. C. Ewing.
Str. Soo City, H. Cleland.

Str. Stackhouse, Powell, William Megarvey. Sch. Stafford, John Christensen. Str. Stafford, W. R., Theodore Grant. Str. Stanton, John, Charles H. Heaton. Str. Starke, C. H., William Crosby. Str. Starruca, J. A. Clarke. Str. State of New York, Eugene Hayward. Str. State of Ohio, George Ransier. Str. Stephenson, George, H. G. Harbottle. Bge. Stephenson, Isaac, D. Sauve. Str. Stephenson, I. Watson, L. F. Strahan. Str. Stephenson, S. M., James San-Str. Stewart, A. E., Fred Stewart. Str. Stewart, ..., Fred Chamberlain.
Tug Stickney, William Wilkinson.
Str. Stone, Amasa, W. A. Reed. Tug Stone, Ella G., Arthur J. Green. Str. Stormount, H. N. McMaster. Str. Strathcona, J. A. Irving. Str. Sullivan, J. J., William P. Ben-Str. Superior, Donald Gillies. Str. Superior City, John R. Noble. Str. Susquehanna, M. Boggan. Bge. Sweetheart, Frank Mooner. Str. Syracuse, James R. Gibson. Str. Tadousac, J. Simard.
Str. Tagona, J. S. Moore.
Str. Tashmoo, P. S. Barker.
Str. Taylor, Moses, F. D. Galton.
Str. Terrebonne, C. Laviolette.
Str. Thew, W. P., William Duncan.
Bge. Thomas, Sidney G., George J. Maloney. Str. Thompson, Alexis W., Robert McDowell. Sch. Thompson, A. W., F. C. Hart. Tug Thomson, D. G., Thomas O'Connor. Str. Thompson, Smith, George W. Pierce. Str. Three Brothers, Sam Christopher. Bge. Tilden, Samuel J., Peter Edgar. Str. Tiones, C. W. Watson. Str. Tionesta, John Doherty. Str. Toltec, William P. Quinlan. Str. Topeka, Stephen Brownell. Str. Toronto, E. A. Booth.
Tug Torrent, H. Tufts.
Str. Townsend, E. Y., Edw. Sullivan.

Str. Transfer, George D. Horn, John

C. Craig. Str. Transport, William King, Russell Aiken.

Tug Traverse, Roy Burke.
Str. Trevor, J. B., H. T. Kelley.
Str. Troy, Thomas Slattery.
Str. Truesuae, William H., George

C. Stevenson.

Bge. Tuxbury, A. C., Peter Ward.
Str. Turbinia, B. W. Bongard.
Str. Turret Cape, R. D. Simpson.
Str. Turret Chief, H. Boult.
Str. Turret Court, Robert McIntyre.
Bge. Twin Sisters, J. Mallett, Sr.

Str. Uganda, D. A. Kendall. Bge. Ungava, C. Sauve. Str. United States, Edward Evans.

Bge. Uranus, Elam Booth. Str. Utica, H. L. Dennis.

Str. Van Hise, C. R., F. C. Watson.

Str. Verona, James Jackson.

Str. Victoria, J. C. Barclay. Str. Victoria, Peter Williams. Str. Victory, Joseph Lowes. Str. Virginia, E. E. Redner.

Str. Wade, J. H., C. W. Willett.
Str. Wahcondah, H. Mawdesley.
Str. Wainwright, D. Elliott.
Str. Waldo, L. C., John Duddleson.
Str. Wallace, E. L., John McAlpine.
Bge. Wall, Charles, Andrew Haganey.
Str. Walter D., J. B. Warner.
Rec. Warnington G. H. Sam

Bge. Warmington, G. H., Sam Leboeuf.

Str. Warner, Charles M., John Mor-

Str. Warner, R. S., William Langell.

Str. Warren, Homer, J. C. Garey.
Sch. Warriner, S. D., John Autterson.
Str. Wasaga, H. N. mith.
Str. Water Lily, Nelson Palmateer.
Str. Watt, James, Arthur Montague.

Str. Waubic, A. A. Bellrose. Str. Wau-Kon, C. Frame.

Str. Wauketa, W. G. Adams. Str. Wawatam, George O. Reece. Tug Welcome, A. L. Roy.

Str. Welshman, Thomas Ranger.

Str. Wente, Robert C., Edward D. Skeels.

Skeels.
Str. Western Star, Edward Hendricks.
Str. Western States, F. A. Stewart.
Str. Westmount, C. Milligan.
Str. Westmount, William R. Wakely.
Str. Wexford, George H. Playter.
Str. Where Now, W. J. Daly.
Str. Whitaker, Byron, James P.

Stewart.

Bge. White & Friant, Pete Trudo. Str. White, Pendennis, F. Furtau. Str. Wickwire, Theodore H., J. A.

Montgomery. Str. Widener, P. A. B., Fred Hoff-

Str. Widlar, Francis, Henry Hinslea. Str. Wiehe, T. R., J. J. Jennings.

Str. Wilkinson, Horace S., E. A. Hill.

Tug Williams, Charles E., Murry S. Maines.

Sch. Williams, Ellen, N. Mathiesen. Bge. Wilson, J. O. Roberson. Str. Wilson, Mathew, Charles Mc-

Clure.

Str. Windsor, John Doyle.

Str. Winnipeg, Tom Petersen.
Str. Winona, B. Garvie.
Bge. Wis. & Mich. Ry. Co. No. 1, Alex Bohlin.

Str. Wissahickon, Hugh O. Miller.
Bge. Witbeck, Henry, J. Mallett, Jr.
Str. Wolvin, A. B., Daniel Murphy.
Str. Wotan, Jacob Berentsen.
Bge. Wright, A. W., S. Williams.
Str. Wyandotte, William H. Yates.

Str. Yale, P. M. Grant. Sch. Young, William A., Ralph A. Pringle.

Bge. Zapotec, A. DeRepentigny. Str. Zenith City, C. D. Secord.

## APPOINTMENTS OF MASTERS OF LAKE VESSELS.

List of Captains arranged according to names of Captains.

Abbott, George, Sch. Mary Lyon.
Ackerman, J. C., Str. Pere Marquette 20.
Ackley, George M., Str. Griffin.
Adams, W. G., Str. Wauketa.
Aiken, Russell, Str. Transport.
Albinson, A., Str. Dunelm.
Allen, James F., Str. Pierrepont.
Allen, S. C., Str. H. H. Rogers.
Allison, M., Str. William Hackett.
Ames, George W., Str. Saxon.
Ames, James N., Bge. Marsala.
Ames, W. D., Str. Lyman C. Smith.
Anderson, Neil, Str. Northern Wave.
Anderson, A. E., Str. F. W. Fletcher.
Anderson, G. E., Str. H. S. Holden.
Anderson, G. E., Str. H. S. Holden.
Anderson, S. V., Str. Henry B. Hall.
Anderson, W. H., Str. H. M. Pellatt.
Archer, H. T., Str. John Owen.
Autterson, J., Str. J. J. Albright.
Autterson, John, Sch. S. D. Warriner.

Babbitt, John H., Str. David Z. Norton.
Bailey, F. A., Str. William E. Corey.
Baillargeon, Alex, Str. Huron.
Bain, Arch J., Str. Excelsior.
Baird, J. D., Str. W. H. Gratwick.
Baldwin, T. G., Str. Georgia.
Balfour, George W., Bge., George H.
Corliss.
Banker, George H., Str. William R.
Linn.
Barclay, J. C., Str. Victoria.
Barker, B. S., Str. Tashmoo.
Barnard, S., Tug Smith.
Bassett, F. A., Str. Collingwood.
Bassett, W. J., Str. J. A. McKee.
Batchelor, P. C., Tug J. W. Bennett.
Batten, George, Str. Rapids King.
Bausette, Michael, Str. Great Western.
Baxter, J. L., Str. Rosedale.
Baxter, William, Str. Kearsarge.
Beall, A. R., Str. William Nottingham.

Beaupre, Alfred, Bge. Manila. Beaupre, C., Sch. Ceylon. Beauvais, James, Str. Felix Carbray. Beggs, Thomas, Str. John A. Donald-Bell, George A., Str. George F. Baker. Bell, J. C., Str. German. Bell, Thomas J., Str. Clarion. Bellrose, A. A., Str. Waubic. Bemrose, William, Str. King Edward. Benham, Charles A., Str. John A. McGean. Benham, William P., Str. J. Sullivan.
Bennett, George J., Str. R. L. Fryer.
Bennett, Herman, Str. W. H. Gratwick, No. 1.
Berentsen, Jacob, Str. Wotan.
Bertrand, John, Str. Islander.
Birnie, Alex., Str. Ottawa.
Black, A., Str. City of Belleville.
Black, James, Str. Acadian.
Blair, E. B., Str. North Sea.
Blasier, Albert, Bge. Joseph L.
Hurd. Hurd. Blattner, William H., Str. L. Smith.

Bloom, Frank, Str. Lehigh.

Bloomfield, William, Str. Caspian.

Boggan, M., Str. Susquehanna.

Bohlin, Alex., Bge. Wis. & Mich. Ry.

Co. No. 1.

Bongard, B. W., Str. Turbinia.

Booth, E. A., Str. Toronto.

Booth, Elam, Bge. Uranus.

Booth, John, Bge. F. M. Knapp.

Booth, William, Str. Maine.

Boswell, W. A., Str. Puritan.

Bouille, David, Str. Cambria.

Boult, H., Str. Turret Chief.

Bowen, Ben, Str. Iona. Bowen, Ben, Str. Iona. Bowen,
Murphy.
Boyce, C. S., Str. Henry Cort.
Boyce, H. M., Str. John Oades.
Boyle, R. H., Str. Paliki.
Boynton, A. H., Str. Sainte Bowen, George H., Str. Simon J. Sainte Ig-Boynton, G. W., Str. Algomah.

Boynton, L. R., Str. Sainte Marie. Bradshaw, J. L., Str. John W. Moore. Brant, A., Bge. D. G. Cutler. Brian, William, Str. Kenora. Bridges, W. H., Sch. Allegheny. Briggs, R., Bge. Dayton. Brock, Henry, Str. Mary A. Mc-Gregor. Brook, George B., Str. George A. Brooks, Henry, Bge. Rob Roy. Brooks, J. W., Str. Pere Marquette 3. Brown, Alex., Str. Athabasca. Brownell, E. H., Str. F. Schlesin-Brownell, Stephen, Str. Topeka. Burke, Bert, Str. C. W. Chamber-Burke, Enos J., Str. W. C. Richard-Burke, Roy, Tug Traverse. Burns, George C., Str. A. D. Hay-Burns, John W., Str. Princeton. Burns, Thomas, Str. G. J. Grammer. Burr, James, Str. Empire City. Burrows, A. W., Str. W. H. Gil-Burt, George C., Str. Mariposa. Byers, Clarke, Str. W. G. Pollock.

Cameron, J. C., Str. Huron.
Campau, W. H., Str. Coralia.
Campbell, A. L., Str. Huronic.
Campbell, John, Str. Saugatuck.
Campbell, Neill, Str. H. C. Frick.
Canartney, M., Str. W. H. Sawyer.
Carey, Thomas, Tug Nelles.
Carnegie, R. H., Str. America.
Carney, James, Str. Ontario.
Carns, Edward, Str. George Burnham.
Catter, George J., Str. International.
Cassin, James, Str. Pawnee.
Cavanaugh, J., Str. Nevada.
Chamberlain, Fred, Bge. A. Stewart,
Bge. Eleanor.
Chamberlain, Fred, Bge. A. Stewart,
Brown.
Chamberlin, M. K., Str. S. F. B.
Morse.
Chambers, A. P., Str. J. P. Morgan.
Chamman, A. C., Str. Norman B.
Ream.

Charlebois, E. M., Str. Ramona. Christensen, John, Sch. Stafford.

Christenson, Anton, Str. Mary H. Boyce. Christopher, Sam, Str. Three Brothers.
Christy, M., Str. Clifford F. Moll.
Church, R., Tug Gillen.
Clark, A. G., Str. Scotsman.
Clark, T. E., Str. Pueblo.
Clarke, J. A., Str. Starrucca.
Claussen, Gus, Str. Albert Soper.
Cleland, H., Str. Soo City.
Clifford, Alexander, Tug Dragon.
Clifford, George P., Str. Avon.
Cody, U. S., Str. Martin Mullen.
Collins, Allen, Str. W. P. Palmer.
Coon, George, Str. Hennepin.
Cooney, R., Str. Dundurn.
Coons, Charles, Str. India.
Corcoran, Joseph, Str. Schuylkill.
Cornwall, John, Sch. S. H. Dunn.
Cottrell, George, Str. Argo.
Cottrell, George, Str. Argo. Cowles, William J., Str. Linden. Cox, W. G., Str. Majestic. Craig, John C., Str. Transfer. Crawford, George B., Str. Northern Cronkhite, Henry, Str. (Japan. Crosby, William, Str. C. H. Starke. Crowley, F. J., Str. G. W. Perkins. Cruikshank, George, Str. Sappho. Cuff, Alex., Tug Magnolia. Cullen, T. J., Str. John Ericsson. Culp, H., Str. Howard L. Shaw. Cummings, C. H., Str. Isaac, L. Ellwood Cunningham, James, Str. Mohegan. Cunningham, William, Str. Mount Stephen.

Dailey, M., Str. Ellen.
Daly, W. J., Str. Where Now.
Danforth, Henry, Tug Hunter Savidge.
Darling, J. W., Tug Reliance.
Daryaw, C., Sch. Ford River.
Daryaw, H., Sch. J. B. Kitchen.
Davey, George, Bge. Hamilton.
Davis, F. J., Str. Leafield.
Delaney, George, Str. Mahoning.
Delaney, J., Str. Beaverton.
Demers, A., Bge. Menominee.
Dennis, H. L., Str. Utica.
Densteadt, John J., Str. Pleasure.
Depencier, George, Str. Ottawan.
De Repentigny, A., Bge. Zapotec.
Derocher, Aldrich, Bge. Ireland.

Desgroseillier, J. B., Tug H. F. Bronson.
Desot, Frank F., Sch. Commodore.
Detlefs, Emil, Str. William A. Paine.
Dick, W. H., Bge. James Nasmyth.
Dissette, J. H., Bge. Maia.
Dix, James, Str. Gargantna.
Dixon, Alfred, Str. A. L. Hopkins.
Doak, J. A., Str. Charles S. Neff.
Doherty, John, Str. Tionesta.
Donoghue, E. J., Str. John Otis.
Dority, Frank, Str. Britannic.
Dority, Frank, Str. Britannic.
Dority, Frank, Str. Pere Marquette 5.
DoVille, David F., Str. Ella G.
Doyle, John, Str. Windsor.
Driscoll, J. H., Str. John Dunn Jr.
Duddleson, John, Str. L. C. Waldo.
Duffy, F., Str. Grace Dormer.
Dugal, J. E., Str. St. Irenee.
Dulmage, William, Str. Aberdeen.
Duncan, D. J., Str. George L. Craig.
Duncan, William, Str. W. P. Thew.
Dupuie, Herbert, Str. E. M. Peck.

Eber, Charles, Str. Columbia.
Eble, John, Str. S. O. Neff.
Edgar, Peter, Bge. Samuel J. Tilden.
Edwards, J. K., Sch. Alex. Anderson.
Edwardson, Christ, Str. N. J. Nessen.
Eligh, F. P., Str. Hebron.
Elliott, D., Str. Wainwright.
Elliott, Frank, Str. Mueller.
Elliott, Fred, Str. Empress.
Ellis, Thomas, Str. Garland.
Emerson, M. J., Str. S. M. Fischer.
England, R. W., Str. R. W. England.
Ennes, C. G., Str. Robert Fulton.
Ennes, C. M., Str. B. F. Jones.
Ennes, E. L., Str. Joshua W.
Rhodes.
Erickson, E., Str. J. A. Holmes.
Erickson, E., Str. J. A. Holmes.
Erickson, E., Str. J. A. Holmes.
Erickson, E., Str. J. Str. Migston.
Evans, Edward, Str. United States.
Ewart, John, Str. Neebing.

Fahey, John, Str. Juno.
Ferguson, J. A., Str. Corona.
Ferguson, J., Sch. Burma.
Ferguson, Robert F., Str. Britannia.
Fetterly, W. A., Bge. Donaldson.
Fisher, John, Str. Milwaukee.

Fleming, E., Str. Rideau Queen. Foote, R. D., Str. Hamonic. Forbes, Alex, Str. Harry Coulby. Forrest, A., Str. Niagara. Forrest, George, Str. H. D. Coffinberry. Fowler, C. C., Str. Chicago. Fox., A. J., Str. Frank E. Kirby. Fox. J. C., Str. Lakeside. Fox. William G., Tug William H. Kinch. Frame, C., Str. Wau-Kon. Frame, Charles, Str. Columbia. Frech, Fred, Tug George Emerson. Fredrickson, C., Str. Ann Arbor No. Fredrickson, Louis, Sch. George J. Boyce. Freschette, Frank, Tug Mentor. Furtau, F., Str. Pendennis White. Gagne, W., Str. Murray Bay.
Galton, C. B., Str. Hugh Kennedy.
Galton, F. D., Str. Moses Taylor.
Ganley, Thomas. Tug Columbus.
Garey, C. E., Bge. Exile.
Garey, J. C., Bge. Homer War-Garvie, B., Str. Winona. Gebhard, Frank R., Str. Chemung. Geel, Guy, Str. Simon Langell. Gegenheimer, Charles, Str. William Ebenborn. Geisendorfer. Andrew. Str. E. P. Recor. Gemmell. J. T., Str. R. w. E. Bunsen. Germain, Alfred, Bge. Alice B. Norris.
Gibson, James R., Str. Syracuse.
Gillies, Donald, Str. Superior.
Girardin, D., Str. Harvey H. Brown.
Girardin, D., Jr., Str. Fayette Brown.
Girardin, W. L., Str. S. R. Kirby.
Glass, Joseph, Bge. Naiad.
Goodrich, J. W., Str. Nipigon.
Goodwin, E. M., Bge. G. K. Jackson.
Gordon, Charles, Bge. Malta.
Grant, C. J., Str. Rensselaer.
Grant, P. M., Str. Yale.
Grant, Theodore, Str. W. R. Stafford. Granville, Frank, Sch. Hattie Hutt. Graves, A. R., Str. Duluth. Gray, John F., Str. Joliet. Green, A. J., Sch. A. Maitland. Green, Arnold, Str. City of London.

Green, Arthur J., Tug Ella G. Stone. Green, Thomas, Tug Pliny B. Mc-Naughton. Greenley, A. J., Str. F. L. Robbins. Groulx, Edmund, Str. Ralph T. Hol-Guild, John, Sch. Bertie Calkins. Gunderson, N. A., Str. Susie Chipman. Haagenson, B. F., Str. Ashtabula. Hagan, John O., Str. John J. Boland. Hagan, William, Str. Samuel Mitch-Haganey, Andrew, Bge. Charles Wall. Halero, W. F., Str. Princess. Hall, James, Bge. T. H. Cahoon. Hall, W. J., Str. Hall. Hamilton, James, Bge. Jeremiah God-Hand, A. S., Bge. Marcia. Hansen, Andrew, Str. Clarence A. Hansen, Hans, Sch. Butcher Boy. Hansen, John F., Str. Black Rock. Hanson, John T., Str. C. F. Biel-Harbottle, H. G., Str. George Stephenson.
Harlow, William J., Str. Harlow.
Harrington, A., Str. Mary.
Harris, H., Jr., Bge. Manda.
Harris, J., Tug Frontenac.
Harris, R., Sch. A. Gebhart.
Hart, C. B., Str. Bon Ami.
Hart, F. C., Sch. A. W. Thomp-Hartman, J. J., Str. North Land. Hartwell. A., Str. St. Louis. Hay, Peter, Str. Northern Light. Hayes, William J., Str. Lycoming. Hayward, Eugene, Str. State of New York. Heaton, Charles H., Str. John Stan-Hebner, Frank, Bge. Alex. Holley. Hefferman, James, Str. Caledonia. Heffernan, M., Str. Lloyd S. Porter. Heffernan, Thomas, Str. L. L. Barth. Hemenger, F. R., Str. Frank H. Goodyear. Henderson, D., Str. A. S. Chisholm. Henderson, James, Str. Macassa. Edward, Str. Western Hendricks, Star. Henry, William, Str. Charles Lyon. Herbert, James, Str. Kensington.

Hess, John E., Str. Mary H. Higgie, John F., Str. Louis Pahlow. Hill, E. A., Str. Horace S. Wilkin-Hill, Samuel, St. Bge. Doric. Hinslea, Henry, Str. Francis Widlar. Hoag, W. S., Str. Sir Henry Besse-Hoffman, Fred, Str. P. A. B. Wid-Holdridge, George, Str. J. B. Neilson.

LeB. Jenney.
Holdridge, O. W., Bge. William
LeB. Jenney.
Holmes, Louis, Str. Omaha.
Holmes, S., Str. Adella Shores.
Hormig, W. F., Str. Samuel Mather.
Horn, George D., Str. Transfer.
Hosner, V. L., Str. W. F. Fitch,
Hough, Edgar, Str Parks Foster.
Hough, T. M., Str. Ogdensburg.
Hourigan, D., Str. John Rugee.
Hourigan, M., Sch. Walter A. Sherman. son. Howard, Harry, Str. Calumet. Hudgins, John, Str. Reliance. Hudson, William C., Str. New Isl-and Wanderer. and Wanderer.

Humble, R. F., Str. Malietoa.

Humphrey, M. W., Str. New York.

Hunt, W. J., Str. Alva C. Dinkey.

Huntoon, A. J., Str. Detroit.

Hurteau, G., Bge. Katie H.

Hutchins, H. J., Str. Adam E. Cor
nelins. nelius. Huyser, H., Str. Rhoda Emily. Huyser, H., Str. Miami. Iler, W. C., Str. Gen. O. M. Poe.

Ironsides, M., St. Bge. Ionic. Irving, F. A., Str. Strathcona. Ivers, John G., Str. C. F. Bielman,

Jackson, John, Str. Verona. Jackson, John, Str. Lansdowne. Jackson, R. C., Str. Joseph Sellwood. Jacques, D., Str. Promise. Jacques, Eli, Tug Annie L. Smith. Tacques, Eli, Bge. C. E. Redfern. Str. George N. Jaenke, Herman, Orr. Jagenow, William, Str. Admiral. Jarrell, John, Str. North King. Jenking, Charles, Str. Michigan. Jennings, J. U., Str. T. R. Wiehe.

Jennings, T., Str. Primrose.
Jex, H. N., Sch. E. T. Judd.
Johnson, F. O., Str. Normandie.
Johnson, Fred R., Str. Algonquin.
Johnson, W. P., Bge. Helvetia.
Johnston, E., Str. Lagonda.
Jollie, Richard, Str. E. J. Buffington.
Jones, J., Tug Dreadnaught.
Jones, S. R., Str. Duluth.
Jordan, W. C., Str. Agawa.
Joyce, W., Str. John Hanlan.

Kelley, H. T., Str. J. B. Trevor.
Kelley, T., Str. Maryland.
Kelley, William, Bge. James H. Pellett.
Kendall, Charles H, Str. St. Lawrence.
Kendall, D. A., Str Uganda.
Kendall, George B., Bge. Bryn Mawr.
Kendall, H. J., Str. H. J. Kendall.
Kennedy, John, Str. Mohawk.
Kilby, W. H., Str. Cornell.
Kilton, Manning, Tug Ashland.
Kilty, Peter, Str. Pere Marquette
18.
Kinch, George, Str. F. H. Prince.
King, H. W., Str. Chicora.
King, William, Str. Transport.
Klingler, Joseph, Str. Owana.

Lacouture, J., Str. Laprairie.
La Croix, Peter, Bge. William Brake.
Lafrance, F. X., Str. Maunaloa.
Lafrance, F. X., Str. Montreal.
Lamb, Frank, Str. R. E. DoVille.
Landfair, B. W., Str. La Belle.
Le Comte, Gus, Str. Fannie C. Hart.
Le Fleur, William H., Str. Pere
Marquette 19.
Lague, M., Bge. A. D.
Lalonde, Alfred, Bge. H. B.
Lalonde, Narcisse, Bge. James Buckly.
Lalonde, Narcisse, Bge. James Buckly.
Lalonde, William, Str. R. S. Warner.
Larsen, P., Str. T. S. Christie.
Larson, A. L., Str. Ann Arbor No.
3.
Lavigne, William, Str. Midland
Queen.
Laviolette, A., Str. Boucherville.
Laviolette, C., Str. Terrebonne.
Lawson, A., Tug Cooper.
Leath, E. C., Str. Northern King.
Leboeuf, Sam, Bge. G. H. Warmington.
LeFave, D., Str. Parthia.

Lefebvre, A., Str. City of Montreal. Lehan, John J., Str. Alaska. Lepuie, Alphonse, Str. Mary. Letour, H., Bge. Klondyke. Lightbody, John, Str. City of St. Lightbody, Mathew, Str. City of Alpena. Light, F. W., Str. Briton. Linn, F. D., Sch. Jennie Mathews. Little, C. E., Str. C. H. Green. Livingston, M. A., Str. City of Mid-Lockhart, D. O., Str. Annie Laura. Logan, John A., Str. J. T. Hutchinson. Lowe, J. B., Str. E. A. S. Clark.
Lowes, Joseph, Str. Victory.
Lozen, J. F., Bge. J. B. Lozen.
Lunde, Hans, Bge. No. 41, Standard
Oil Co., of N. Y.
Lyman, C. A., Str. Milwaukee.
Lyons, R. J., Str. A. E. Nettleton. McAlpine, H., Str. City of Erie. McAlpine, John, Str. E. L. Wallace. McAlpine, William, Str. John B. Cowle. McArthur, A., Str. Republic. McCallum, George W., Str. Sir William Fairbairn. McCann, Hugh, Str. Italia. McCannel, James, Str. Alberta. McCarty, John, Str. Mackinac. McCarty, William, Str. Chippewa. McCarty, William, Sch. Ed. McWilliams. McCauley, Con, Str. Carolina. McClinton, W. D., Str. Minneapolis. McClure, Charles, Str. Mathew Wilson.

McDonald, J. A., Str. Ramapo.
McDonald, William, Bge. Martha.
McDowell, Robert, Str. Alexis W.
Thompson.
McElroy, W. P., Str. Sir William
Siemens.
McGarry, John, Str. J. B. Colgate.
McGiffin, John, Str. Cayuga.
McGillivray, Dan, Str. Maruba.
McGowan, Thomas, Bge. D. R.
Rhodes.
McGrath, J., Str. Prescott.
McGrath, P. J., Tug G. D. Seymour.

McIntyre, A., Str. A. E. Ames.
McIntyre, B., Sch. P. B. Locke.
McIntyre, H. J., Str. Ongiara.
McIntyre, John, Str. Manitoba.
McIntyre, Peter, Str. Scottish Hero.
McIntyre, Robert, Str. Turret Court.
McIsaacs, Neil, Str. Pere Marquette 15.

McKay, A. J., Str. City of Cleveland.
McKay, Peter, Str. Regina.
McKay, W. J., Str. Oscoda.
McKeighan, John, Sch. Chippewa.
McKenna, William, Tug Myra.
McKenzie, Angus, Str. Muncy.
McKenzie, K., Str. L. Edward Hines.
McKinnon, Hugh, Sch. Clara.
McKinnon, Peter, Sch. Sephie.
McLachlan, A., Str. City of Detroit.
McLachlan, D. C., Str. Corunna.
McLachlan, Duncan, Str. Eastern
States. States. McLarty, James, Str. J. C. Ford. McLean, William, Str. Ionia. McLean, William, Str. J. H. Plummer. McLeod, A G., Str. Frank Rockefeller. McLeod, R. R., Str. M. & B. No. 2. McMaster, H. N., Str. Stormount. McNeill, John, Str. Hemlock.
McNutt, Edward, Str. Commerce.
McPhee, Malcolm, Str Keewatin. McPherson, George R., Str. Pere Marquette 14. McPherson, James D., Str. Odanah. McQueen, Stanley, Str. W. A. Haskell. McQuinn, William, Sch. Julia B. Merrill. McSherry, H., Str. Island Queen. McVicar, D., Sch. Sligo. MacGregor, W. B., Str. Hen Henry Phipps. Mackey, George, Str. Glenellah. Mackey, Melvin, Str. Pere Marquette Mackie, George, Bge. Crete. Mackin, William, Str. Brazil. MacLean, Donald, Str. Theodore Roosevelt. Madden, J. H., Str. Alva.

Maddock, J., Str. Garden City.

Madsen, L. N., Str. Sailor Boy.

Mahon, A. J., Str. Thomas Barlum.

Mahon, M. H., Str. Penobscot.

Mahon, Walter, Str. Thomas Adams.

Maines, Murry S., Tug Charles E.

William Williams.

Maitland, H., Str. Edmonton. Major, William S., Str. O. D. Con-Malcolm, William, Str Corona Mallan, Luke, Tug Bartlett. Mallett, J., Jr., Bge. Henry Witbeck. Mallett, J., Sr., Bge. Twin Sisters.
Mallory, D. H., Str. D. O. Mills.
Mallory, R. A., Bge. Sagamore.
Malone, A. H., Str. Prince Rupert.
Maloney, Forrest, Str. Milinokett.
Maloney, George J., Bge. Sidney G. Thomas. Mandeville, H., Str. Longueil. Mann, J. E., Str. Arabian. Marra, James, Str. Cherokee. Marsh, S. O., Str. Grand Haven. Martin, Edward, Str. Juniata. Martin, James, Str. Samuel Marshall. Martin, Michael, Str. Pere Marquette 6. Massey, Sam. B., Str. D. R. Hanna. Mathiesen, N. Sch. Ellen Williams. Mawdesley, H. Str. Wahcondah. Mawdesley, J. W., Str. Donnacona. Maynes, D. A., Bge. Iron Queen. Meeker, S. E., Str. Maritana. Megarvey, William, Str. Powell Stackhouse.

Meikleham, Thomas, Str. Greyhound.

Millard, Charles, Str. Lake Michigan.

Millen, P. L., Str. D. J. Morrell.

Miller, C. D., Str. Edward Smith.

Miller, C. F., Str. Robert Mills.

Miller, Hugh O., Str. Wissahickon.

Miller, John A., Str. E. A. Shores, Jr.

Milligan, Alex, Str. Kenmount.

Milligan, C., Str. Westmount.

Minar, G. A., Str. North West.

Miner, W., Str. Ada Alice.

Moesing, John, Str. D. Dussault.

Moles, F. G., Str. Germanic.

Mondor, A., Str. Berthier.

Monette, Aime, Bge. F. D. Ewen. Stackhouse. Monette, Aime, Bge. F. D. Ewen. Monette, Z., Bge. Diamond. Monpetit, Antoine, Str. Bothnia. Montague, Arthur, Str. James Watt. Montague, C. Z., Str. Charles Hubbard. Montgomery, G. A., Str. Nyanza. Montgomery, J. A., Str. Theodore H. Wickwire. Moody, Charles E., Str. Christopher Columbus. Moody, W. H., Str. E. H. Gary. Mooner, Frank, Bge. Sweetheart.

Moore, George W., Str. Owego. Moore, J. S., Str. Tagona. Morehead, William, Str. William Livingstone. Morgan, J. W., Str. Thomas F. Cole. Morgan, M. F., Str. Chili. Morrison, Charles, Tug Bonita. Morrison, John, Str. Charles М. Warner. Morrison, N. L., Str. John B. Ketcham 2d. Ketcham 2d.
Motley, George J., Str. Haddington.
Moulton, G., Str. Mayflower.
Mulholland, C., Bge. Sir I. L. Bell.
Mulinix, John W., Str. Mulinix Bros.
Murphy, Daniel, Str. A. B. Wolvin.
Murphy, H., Str. Chicago.
Murphy, James, Str. Joseph G. Butler, Murphy, Miles, Tug Glide. Murphy, Stephan M., Str. Monteagle. Murphy, William J., Tug Mary P. Hall. Murray, Robert, Str. Rochester. Myers, M. E., Str. Otego. Myers, P. Lenane, Sch. Bertha Barnes.

Nahrstedt, John, Str. Alex McDougall.
Neal, A. C., Str. Gogebic.
Neal, James S., Str. Adriatic.
Nelson, Charles, Str. Delaware.
Nelson, Fred, Bge. Interlaken.
Nelson, Olaf, Str. Lewiston.
Nerdrum, Christ, Sch. Lake Forest.
Nesbitt, W. K., Str. Senator.
Neville, Richard, Str. Louisiana.
Noble, John R., Str. Superior City.
Nordan, A., Bge. Maida.
Norem, Nels G., Sch. C. H. Hackley.
Nutting, Ralph, Str. Pathfinder.

O'Connor, R., Str. M. A. Hanna. O'Connor, Thomas, Tug Thomson, D.

Oldenberg, Hy, Str. Lansdowne.
Olsen, Andrew, Str. Peters.
Olsen, Martin, Str. Advance.
Olsen, Oscar, Str. Normania.
Olson, Andrew, Str. Maggie Marshall.
Osborne, J. D., Str. Buffalo.
Osborne, M., Str. Kathleen.
Owens, James, Str. Nicaragua.

Palmateer, Nelson, Str. Water Lily. Palmatier, M., Str. Aletha. Parker, J. R., Bge. John Smeaton.

Parks, O. E., Str. O. E. Parks. Parsons, D. R., Str. Alpena. Parsons, D. R., Str. Alpena.
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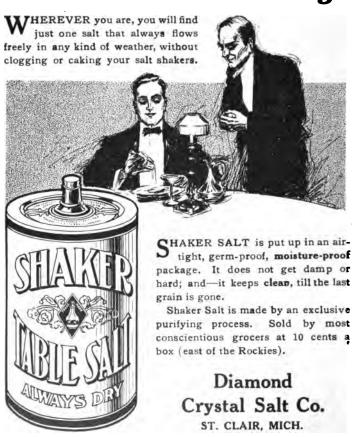
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Knapp-Cramer Hardware Co., Marine Supplies	Milk

PORT HURON, MICH.	Marshall, Fred K., Coal Docks 323 Sandusky Plumbing & Boiler Co.,
Ballentine Dry Goods Co 352 Beckton, Thomas G., Tailor 352	Engineers' Supplies
Commercial Bank	and Fueling 322
pairs, Engineers' Supplies 301 Kendall Marine Reporting Co., J.	SARNIA, ONT.
Ivan Bros Co Marine Reporting	Ideal Steam Laundry 320
Insurance	Kenny, R., Marine Grocer 320 McMann & Co., R. H., Grocers 300
Pioneer Boiler Works, Boiler,	Manning, D., Meats 320
Marine Repairs         331           Robeson. W. B., "Preservo" Waterproofing         285           Shields, George A., Grocer         352	SAULT STE. MARIE, MICH.
Shields, George A., Grocer 352	Chippewa Hardware Co., Ship
PRESCOTT, ONT.	Chandlery 342 Hickler Bros., Machine Shop, Ma-
Prop 255	rine Railway
Prop	Moher, J. H., Meats, Vegetables,
Bus	Milk, Ice
ies, Wines, Liquors	Stribling, W. H., Grocer
RACINE, WIS.	graphers 342
Hanlon Bros., Grocers 351	SHEBOYGAN, WIS.
Haumersen Co., Groceries, Meats 351	Enterprise, The, General Merchan-
RIVER ROUGE, MICH.	dise
Worrick, W., Groceries, Meats 285	Reiss, Towing
ST. CLAIR, MICH.	Klewe Bros., Liquors
Commercial & Savings Bank 321 Diamond Crystal Salt Co., Shaker	Chandlery 309 Model Meat Market, Fred Rosen-
Table Salt         456           Gliem Bros.         Meats         319	thal
Millikin, T. J., Drugs and Grocer-	Boilers, Repairs, Etc
Mills & Co., N. & B., Lumber 319 Whiting, John P., Hardware, Ships'	SOUTH CHICAGO, ILL.
Supplies	•
ST. IGNACE, MICH.	Anderson & Drew, Clothiers 282 Banner, Thomas B., Engineers' Supplies
Chambers Bros., Coal and General Merchandise 343	Supplies
Mulcrone, P., Chicago Market 313 Murray Bros., Gen ral Merchand se. 343	Work 311
·	Great Lakes Supply Co., Ship Chandlers, Sail Makers 59
SANDUSKY, O.	Great Lakes Supply Co., Ship Chandlers
Kerber & Miller, Grocers 354 Koehler Bros., Meats 354	Kriewitz Bros. Co., Groceries, Meats 316 Lange, E. A., Department Store 316

